Fluxera

CATALOGUE 2026

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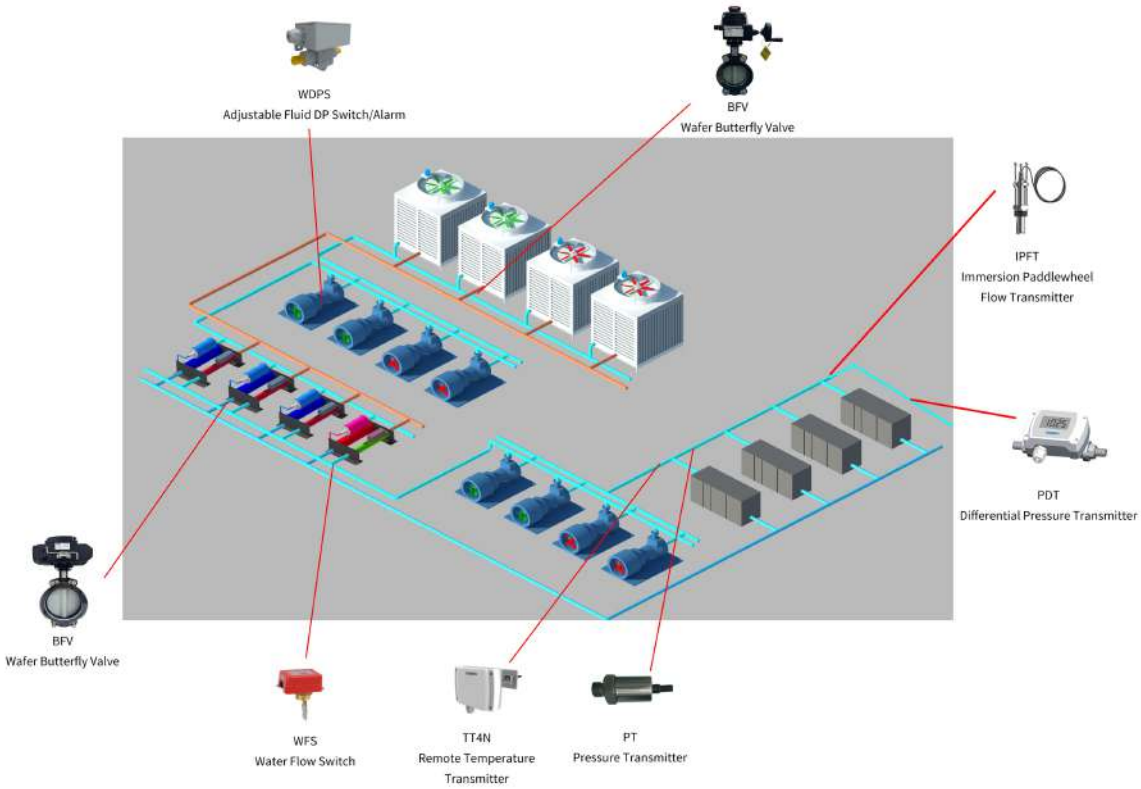
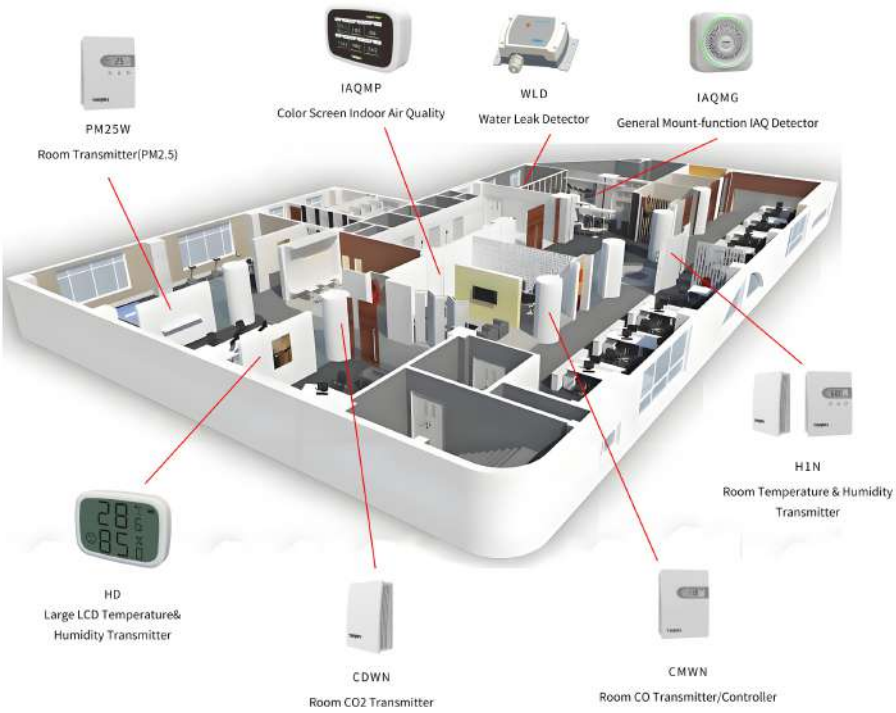
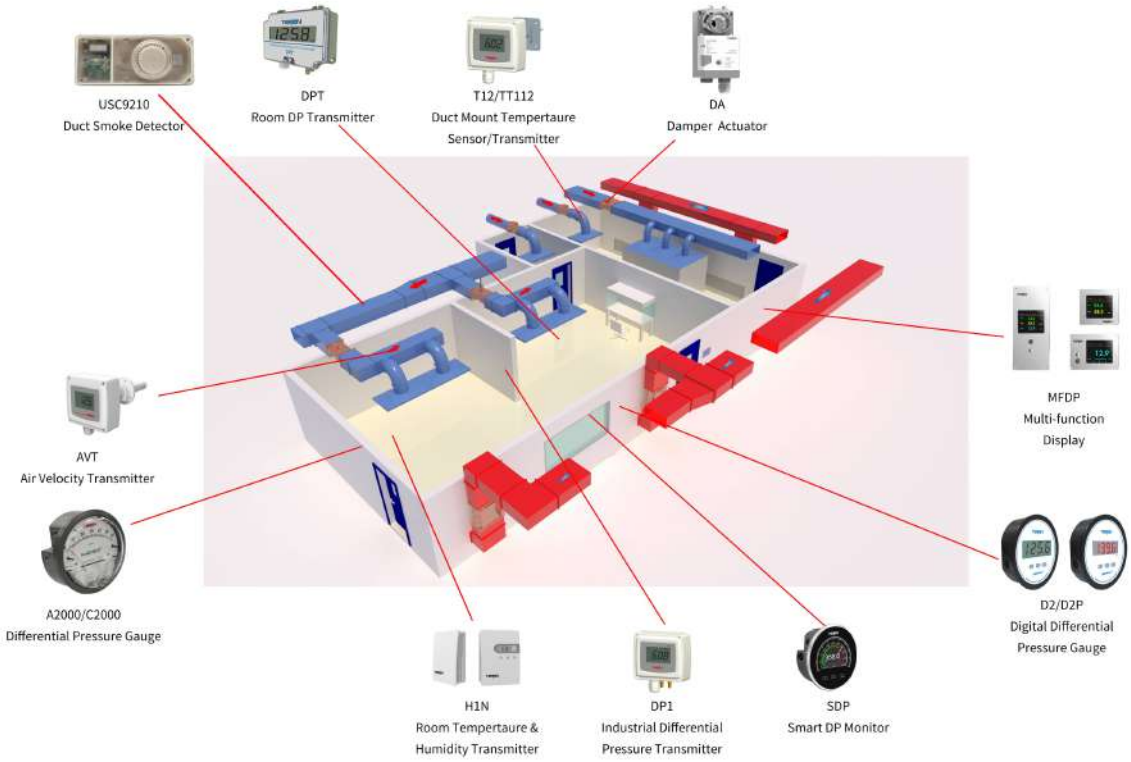
Chiller Plant



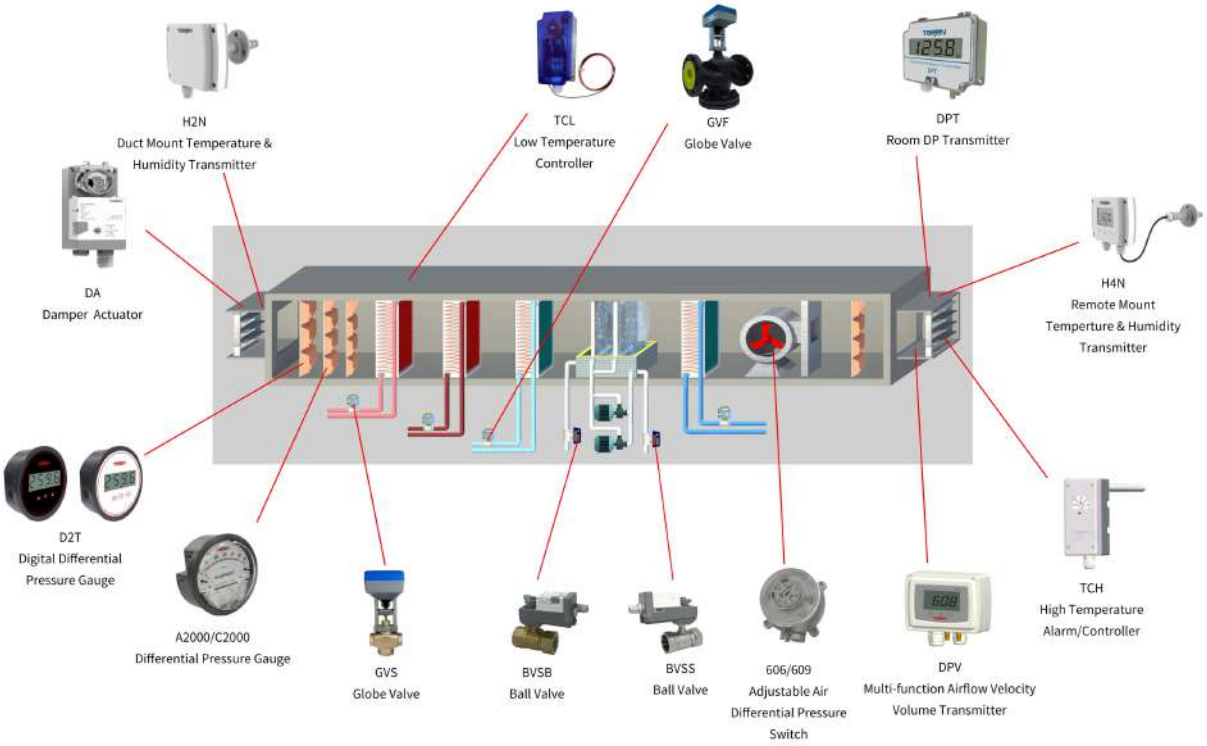
Building Automation



Clean Room



Terminal Unit



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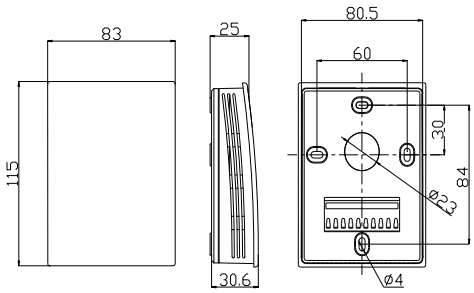
T1N/T1W/TT1N Room/Wall Mount Temperature Sensor/Transmitter

T1N/TT1N



T1W-E

T1W-N

Applications & Features

- Apply for indoor environment temperature measurement. T1N and TT1N are room environment. T1W is flush mount and measures room temperature via the stainless-steel plate for wash down or polluted environments. T1N and T1W are sensors only, while the TT1N is transmitter
- High performance thermistor & RTD, ensure accurate temperature measurement
- Multiple output optional, light and state of art housing, easy installation
- Over voltage and reverse polarity protection, high reliability and anti-interference capability
- Wide temperature range and fast response
- All electrical terminals are on the inside bottom, avoid any possible damage to PCB when wiring

Specifications

T1N/T1W series temperature sensor

Sensor: High accuracy thermistor or RTD, see models
Output: Thermistor or RTD, see models and resistance table
Accuracy: Typical 0.2~0.5°C@ 25°C, see models
Wiring: 2 wires or 3 wires (RTD)
(3 wires connection could obtain better accuracy)
Work Temp.: -30~70°C, 0~95%RH (Non condensing)

Models

T1N room temp. sensor/T1W wall mount temp. sensor

Model	T1N		Room Temp. sensor
	T1W-E		Wall mount Temp. sensor, China/EU style
	T1W-N		Wall mount Temp. sensor, North America style
Thermistor or RTD*		3	PT1000, ±0.2°C @25°C
		4	PT100, ±0.2°C @25°C
		5	NTC20K, ±0.2°C @25°C
		6	Ni 1000, ±0.5°C @25°C
		7	NTC10K-II, ±0.2°C @25°C
		9	NTC10K-III, ±0.3°C @25°C
		A	NTC10K-A, ±0.3°C @25°C

*See resistance table.

TT1N series temperature transmitter

Sensor: Digital temperature sensor
Range: see models
Output: 4~20mA (2 wires), 0~10VDC, 0~5V, RS-485/Modbus
Output Load: ≤500Ω (current), ≥3KΩ (voltage)
Accuracy: ≤±0.3°C @0~100°C
Power: 0~10V:24VDC/24VAC±20%; 4~20mA:24VDC±20%
Display: Optional LCD, resolution 0.1 °C, with unit
Work Temp.: -20~70°C (LCD: 0~70°C), 0~95%RH (Non cond.)
Storage Temperature: -30~70°C
Housing: T1N/TT1N: fire retardant PC(UL94V-0)
T1W: Stainless steel

Protection: IP30
Weight: T1N: 95g; T1W-E: 95g; T1W-N: 80g; TT1N: 145g
Approval: CE

Models

TT1N series room temp. transmitter

Model	TT1N			Room Temp. transmitter
Output		1		0~10VDC
		2		4~20mA (2 wires)
		8		RS~485/Modbus
		E		0~5VDC
Range			1	0~50°C
			2	0~100°C
Display			0	N/A
			1	LCD

Resistance table:

T (°C)	3 PT1000	4 PT100	5 NTC20K	6 Ni1000	7 NTC10K-II	9 NTC10K-III	A NTC10K-A
-40	842.71	84.27	806,400	830.84	325,931	209,800	206,100
-35	862.46	86.25	572,550	851.15	236,365	161,200	155,500
-30	882.22	88.22	411,110	871.69	173,161	123,900	118,400
-25	901.91	90.19	298,440	892.47	128,108	95,590	91,000
-20	921.6	92.16	218,900	913.48	95,674	74,340	70,580
-15	941.23	94.12	162,110	934.74	72,102	58,460	55,240
-10	960.86	96.09	121,200	956.24	54,814	46,120	43,560
-5	980.43	98.04	91,450	977.99	42,022	36,450	34,580
0	**1,000.00**	**100.00**	**69,600**	**1,000.00**	32,477	**28,870**	**27,630**
5	1,019.51	101.95	53,410	1,022.26	25,295	23,130	22,170
10	1,039.03	103.90	41,320	1,044.79	19,848	18,620	17,970
15	1,058.48	105.85	32,210	1,067.59	15,687	15,060	14,690
20	1,077.94	107.79	25,290	1,090.65	12,483	12,240	12,080
25	**1,097.33**	**109.73**	**20,000**	**1,113.99**	**10,000**	**10,000**	**10,000**
30	1,116.73	111.67	15,920	1,137.62	8,062	8,214	8,319.00
35	1,136.07	113.61	12,760	1,161.52	6,539	6,781	6,952.00
40	1,155.41	115.54	10,290	1,185.71	5,335	5,626	5,834.00
45	1,174.69	117.47	8,346	1,210.20	4,378	4,691	4,917.00
50	1,193.97	119.40	6,808	1,234.98	3,611	3,929	4,160.00
55	1,213.20	121.32	5,584	1,260.06	2,995	3,323	3,533.00
60	1,232.42	123.24	4,605	1,285.44	2,496	2,816	3,013.00
65	1,251.59	125.16	3,817	1,311.14	2,090	2,390	2,579.00
70	1,270.75	127.08	3,179	1,337.14	1,758	2,033	2,217.00
75	1,289.86	128.99	2,661	1,363.47	1,486	1,733	1,914.00
80	1,308.97	130.90	2,237	1,390.12	1,261	1,482	1,659.00
85	1,328.02	132.80	1,889	1,417.09	1,075	1,272	1,451.00
90	1,347.07	134.71	1,602	1,444.39	920	1,098	1,265.00
95	1,366.06	136.61	1,363	1,472.03	790	950.20	1,111.00
100	1,385.06	138.51	1,165	1,500.00	681	824.60	978.80

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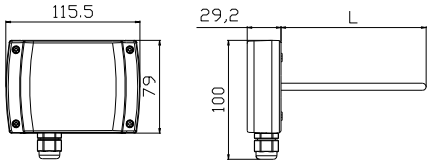
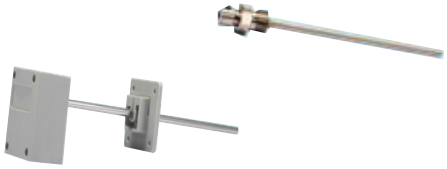
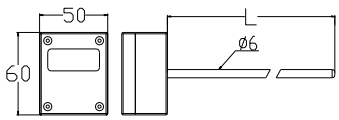
T2/TT2, T4/TT4, Series Temperature Sensor/Transmitter

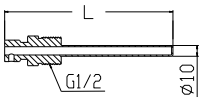
T2N/T4N/TT2N/TT4N



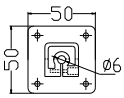


T2/T4





T4/T4N/TT4N
SS Install Well



T2/T2N/TT2N
Flange

Applications & Features

- These sensors/transmitters can be used for temperature measurement in duct air, water and steam pipe
- High performance thermistor & RTD, ensure accurate temperature measurement
- Multiple output optional, Light, and state of art housing, easy installation
- Over voltage and reverse polarity protection, high reliability, and anti-interference capability
- Wide temperature range and fast response
- High protection rate up to IP65

Specifications

T2/T4, T2/4N series temperature sensor
Sensor: High accuracy thermistor or RTD, see models
Output: Thermistor or RTD, see models and resistance table
Accuracy: Typical ±0.2~0.4°C @25°C, see models
Wiring: 2 wires or 3 wires (RTD)
(3 wires connection could obtain better accuracy)
Work Temp. (Whole product): -40~70°C, 0~95%RH (Non cond.)
Medium Temperature (Probe): -40~100°C

TT2/4N series temperature transmitter
Sensor: PT1000, class A
Range: see models
Output: 4~20mA (2 wires) or 0-10VDC,0-5VDC
Output Load: ≤500Ω (current), ≥3kΩ(0-10VDC), ≥2kΩ(0-5VDC)
Total accuracy: ≤±0.5°C @0~50°C, see accuracy curve
Power: Current 18.5~35VDC (R_L=500Ω) 8.5~35VDC (R_L=0Ω)
Voltage 16~35VDC,16~28VAC
Work Temp. (Whole product): -30~70°C, 0~95%RH (Non cond.)
Medium Temperature (Probe): -40~100°C
Storage Temperature: -30~70°C
Housing: Fireproof ABS, SS probe(φ6mm), SS Well
Protection: IP65

Weight: T2:160g; T4:340g; T2N:270g; T4N:480g;
TT2N:280g; TT4N:465g;
Approval: CE

Models

T2,4 /T2,4N temperature sensors

Model	T2/T2N			Duct mount temperature sensor
	T4/T4N			Immersion temperature sensor
Thermistor or RTD*		3		PT1000, ±0.2°C@25°C
		4		PT100, ±0.2°C@25°C
		5		NTC20K, ±0.4°C@25°C
		6		Ni 1000, ±0.4°C@25°C
		7		NTC10K-II, ±0.4°C@25°C
		9		NTC10K-III, ±0.4°C@25°C
		A		NTC10K-A, ±0.4°C@25°C
Probe Length			0	75mm
			1	125mm
			2	200mm
			7	Others

TT2/4N series temperature transmitter

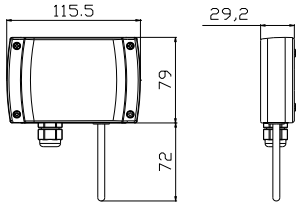
Model	TT2N				Duct mount temperature transmitter
	TT4N				Immersion temperature transmitter
Output		1			0~10V
		2			4-20mA (2 wires)
		E			0~5V
Range			1		0-50°C
			2		0-100°C
			3		-40-60°C
			7		others
Probe Length				0	75mm
				1	125mm
				2	200mm
				7	Others

T4/T4N/TT4N Well

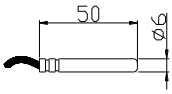
Model	A-T		Stainless Steel Well
Probe Length		0	75mm
		1	125mm
		2	200mm

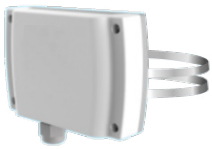
T3N,T5,T6N Series Temperature Sensor

T3N

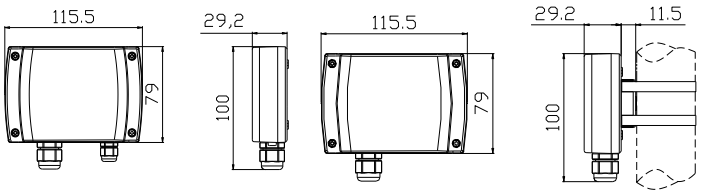


T5





T6N



Applications & Features

- These sensors can be used for temperature measurement in outside air (T3N) and surface/ strap (T5) and strap-on (T6N)
- High performance thermistor & RTD, ensure accurate temperature measurement
- Multiple output optional, Light and state of art housing, easy installation
- Over voltage and reverse polarity protection, high reliability and anti-interference capability
- Wide temperature range and fast response
- High protection rate up to IP65

Specifications

T5, T3N series temperature sensor

Sensor: High accuracy thermistor or RTD, see models
Output: thermistor or RTD, see models and resistance table
Accuracy: typical ±0.2~0.4°C @25°C, see models
Wiring: 2 wires or 3 wires (RTD)
(3 wires connection could obtain better accuracy)
Work Temp. (Whole product): -40~70°C, 0~95%RH (Non cond.)
Medium Temperature (Probe): -40~100°C
Cable(T5): Black, silicone, 2*0.3mm², 1m length, -60~180°C,
$R_{conductor}$ = 0.069Ω/m, $R_{insulation}$ >100MΩ (25°C)
Strap on(T6N): stainless steel, diameter 15~150mm
Storage Temperature: -30~70°C
Housing: Fireproof ABS, SS probe(φ6mm)
Protection: IP65 (IP68 for T5 probe, 1m water depth)
Weight: T5:35g; T3N:220g; T6N:170g
Approval: CE

Models

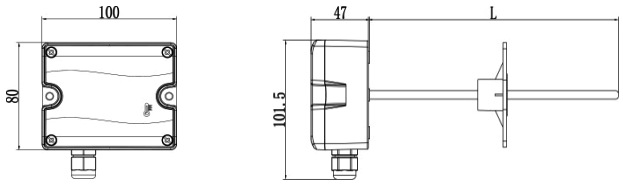
T3N T5 T6N temperature sensors

Model	T3N		Outside air temperature sensor
	T5		Cable temperature sensor
	T6N		Strap-on temperature sensor
Thermistor or RTD*		3	PT1000, ±0.2°C@25°C
		4	PT100, ±0.2°C@25°C
		5	NTC20K, ±0.4°C@25°C
		6	Ni 1000, ±0.4°C@25°C
		7	NTC10K-II, ±0.4°C@25°C
		9	NTC10K-III, ±0.4°C@25°C
		A	NTC10K-A, ±0.4°C@25°C

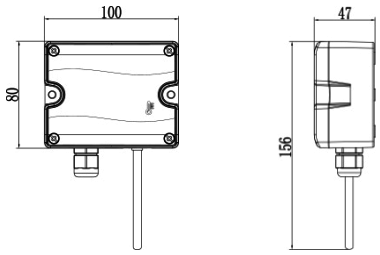
1. See resistance table on page 1 of the catalog.
2. The default cable length of T5 is 1m. It can be ordered for other length of integer meters, such as T53-2, which means the cable length is 2 m.
3. T6N's accuracy is depending on the material of pipe, installation and ambient temperature, air velocity, etc., may not meet the above accuracy.

TE2,3,4 /TTE2,3,4 Temperature Sensor/Transmitter

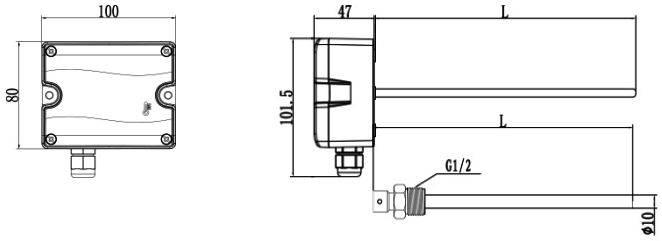
TE2/TTE2



TE3/TTE3



TE4/TTE4



Applications & Features

- TE2, TTE2 series duct temperature sensors/transmitters can be used for air temperature measurement in ducts of air conditioning and ventilation systems
- TE3, TTE3 series outdoor temperature sensors/transmitters can be used for outdoor ambient temperature measurement
- TE4, TTE4 series immersion temperature sensors/transmitters are used for liquid temperature measurement, such as chilled or cooling water or various process water systems. And there are matching wells for different pipe sizes
- Multiple Thermistors or RTD, current or voltage outputs selection, compatible with various automatic control systems
- Wide temperature range and fast response

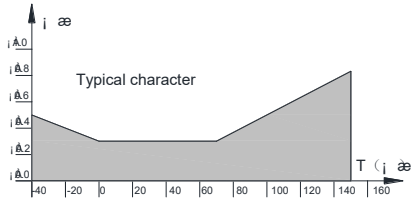
Specifications

TE2,3,4 series temperature sensor
Sensor: High accuracy thermistor or RTD, see models
Output: Thermistor or RTD, see models and resistance table
Accuracy: Typical 0.2~0.5°C@ 25°C, see models
Wiring: TE2,3: 2 wires, TE4: 2 or 3 wires

TTE2,3,4 series temperature transmitter
Sensor: PT1000, Class A
Range: See models
Output: 4~20mA (2 wires) or 0-10VDC (3 wires)
Output Load: ≤500Ω (current), ≥2KΩ (voltage)
Accuracy: ≤±0.3°C @ 0~70°C,24VDC, see accuracy curve
Power: 0-10V: 24VDC/24VAC±20%; 4-20mA: 24VDC±20%

Work Temp.: -40~70°C, 0~95%RH (Non condensing)
Storage Temperature: -30~70°C
Housing: Fire retardant ABS+PC(UL94V-0)

Accuracy curve:
For resistance output sensors, the accuracy is the temperature sensor component accuracy; for current and voltage output transmitters, the accuracy is the transmitter accuracy when the input voltage is 24VDC.



Protection: IP65
Weight: TE2:330g; TE3:220g; TE4:490g; TTE2:330g; TTE3:240; TTE4:510g
Approval: CE

Models

TE2,3,4 temp. sensors

Model	TE2			Duct mount temperature sensor
	TE3			Outside air temperature sensor
	TE4			Immersion temperature sensor
Thermistor or RTD*		3		PT1000, ±0.2°C @25°C
		4		PT100, ±0.2°C @25°C
		5		NTC20K, ±0.2°C @25°C
		6		Ni1000, ±0.5°C @25°C
		7		NTC10K-II, ±0.2°C @25°C
		9		NTC10K-III, ±0.3°C @25°C
		A		NTC10K-A, ±0.3°C @25°C
Probe Length (TE2/4)			0	75mm
			1	125mm
			2	200mm
			7	Others

TTE2,3,4 temp. transmitter

Model	TTE2				Duct mount temperature transmitter
	TTE3				Outside air temperature transmitter
	TTE4				Immersion temperature transmitter
Output		1			0~10VDC (3 wires)
		2			4~20mA (2 wires)
Range			1		0~50°C
			2		0~100°C
			3		-40~60°C
			7		Others
Probe Length (TTE2/4)				0	75mm
				1	125mm
				2	200mm
				7	Others

Install Well (TE4/TTE4)

Model	A-T		Stainless Steel Well
Probe Length		0	75mm
		1	125mm
		2	200mm

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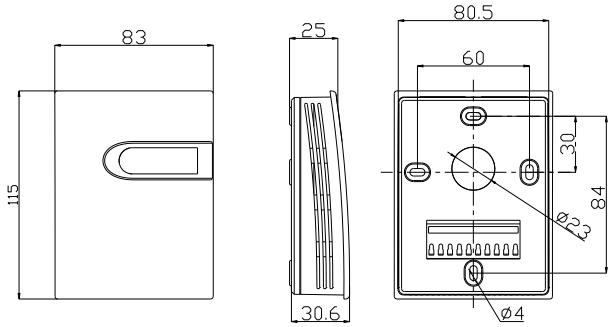
H1N Room Temperature & Humidity Transmitter



Applications & Features

●Apply for indoor air T/RH measurement with good performance digital sensor & circuit. The sensor is 100% field changeable without re-calibration
●Good long term stability, reliability and fast response
●State of art housing. All electrical terminals are on the inside bottom, avoid any possible destroy to PCB when wiring
●Multiple outputs optional, over voltage and reverse polarity protection, and good anti-interference capability
●LCD & function keys can set parameters and calibrate output, so the product can be a stand alone controller

Specifications

Relative Humidity
Sensor: Digital polymer
Range: 0~100%RH
Output: 4~20mA (2 wires), 0~10VDC (3 wires), RS485/Modbus
Accuracy: 2, 3%RH (25°C, 20~80%RH)
Hysteresis: <±1%RH
Response time: <10s (25°C, in slow air)
Drift: <±0.5%RH/year

Temperature
Sensor: Digital, RTD or thermistor, see models
Range: 0~50°C
Output: see Models
Accuracy: transmitter: <±0.4°C(0.3°C) @ 5~60°C, see models

Power: Current: 18.5~35VDC (R_L=500Ω); 8.5~35VDC (R_L=0Ω)
Voltage: 16~28VAC/ 16~35VDC
Output Load: ≤500Ω (current), ≥2KΩ (voltage)
Relay output: 2xSPST, 0.5A/30VDC
Display and Keys: 4 bits LCD, with unit indication, backlight (4-20mA N/A), 3 keys, see details on LCD & Keys operation
Display Resolution: 0.1°C, 0.1%RH
Temp. Limit: -20~70°C, 5~95%RH (Non cond.)
Storage Temperature: -20~80°C
Housing: fire retardant PC(UL94V-0),
Protection: IP30
Approval: CE
Weight: 110g

Models

Model	H1N							Room T/RH transmitter
RH Accuracy		2 3						±2%RH (0.3°C) ±3%RH (0.4°C)
RH Output			1 2 8					0~10VDC (3 wires) 4~20mA (2 wires) RS485/Modbus
Temp. Output				0 1 2 3 4 5 6 7 8 9 A				No 0~10VDC (3 wires) 4~20mA (2 wires) PT1000, ±0.2°C@25°C PT100, ±0.2°C@25°C NTC20K, ±0.2°C@25°C Ni 1000, ±0.5°C@25°C NTC10K-II, 0.2°C@25°C RS485/Modbus NTC10K-III, 0.3°C@25°C NTC10K-A, 0.3°C@25°C
Temp. Range					0 1 7			No 0~50°C others
Relay						0 1		No 2xSPST (4-20mA N/A)
LCD& Keys							0 1 2	No LCD LCD & Keys

1.Current output products are powered on RH circuit, so RH circuit must be powered.
2. When temp. output is 1 or 2, the range 1-7 is applicable. Otherwise, always use 0.
3. See resistance table on page 1 of this catalog.

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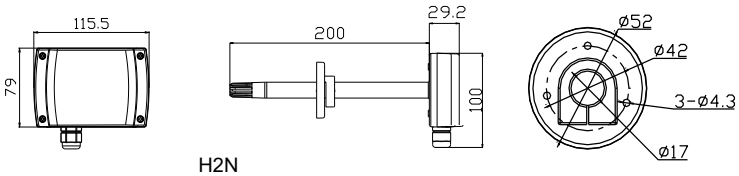
H2,3,4N Temperature & Humidity Transmitter

H2N

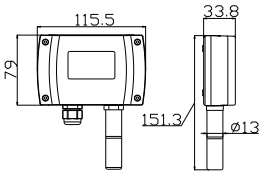


H2N

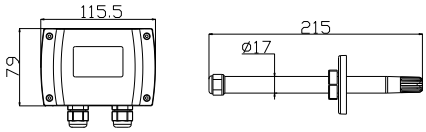
Install Flange

H3N

H4N



H3N



H4N

Applications & Features

- Humidity and temperature transmitters H2N (duct), H3N(outside) and H4N(remote) are designed for environment monitoring and controlling in industrial and commercial buildings.
- High performance digital sensors and circuits, ensure accurate measurement and temperature compensation
- Digital technology applied, multiple outputs optional, over voltage and reverse polarity protection, high reliability and anti-interference capability
- LCD display temperature and humidity alternatively
- LCD & function keys can set parameters and calibrate output, so the product can be a stand alone controller
- Good long term stability and reliability
- 100% field changeable sensor without re-calibration
- Fast response
- High protection rate up to IP65

Specifications

Relative Humidity

Sensor: Digital polymer
Range: 0~100%RH
Output: see models
Accuracy: 2%, 3%, (25°C, 20~80%RH)
Hysteresis: <±1%RH
Response time: <10s (25°C, in slow air)
Drift: <±0.5%RH / year

Temperature

Sensor: Digital temperature sensor or RTD/thermistor
Range: 0~50°C, 0~100°C, -40~60°C, or others
Output: see models
Accuracy: Transmitter: ≤±0.4°C @ 5~60°C or 0.3°C @ 5~60°C
RTD or thermistor: typical 0.2~0.4°C@ 25°C, see models

Power: Current: 18.5~35VDC (R_{load}=500Ω)
8.5~35VDC (R_{load}=0Ω)
Voltage: 16~28VAC/ 16~35VDC
Output Load: ≤500Ω (current), ≥2KΩ (voltage)
Relay output: 2xSPST, 0.5A/30VDC
Display and keys: 4 digits LCD, with unit indication, backlight (4-20mA N/A), 3 touch keys, see more details on LCD & Keys operation
Work Temp.: -30~70°C(LCD:0~50°C)
5~95%RH (Non condensing)
Housing: Fireproof ABS housing, UHMW-PE filter(H2/H4N), SS probe and sintered filter(H3N)

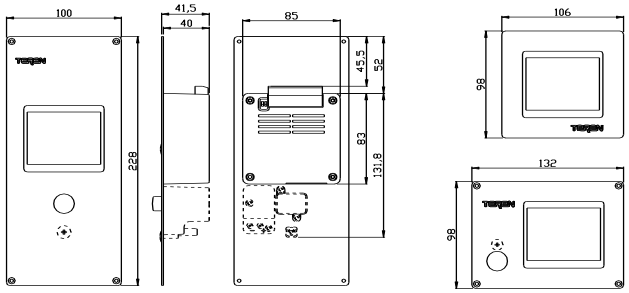
Protection: IP65
Weight: H2N:360g; H3N:270g; H4N:430g
Approval: CE

Models

Model	H2N H3N H4N							Duct mount Temp./RH transmitter Outside air Temp./RH transmitter Remote mount Temp./ RH transmitter
RH Accuracy		2 3						±2%RH(0.3°C) ±3%RH(0.4°C)
RH Output			1 2 8					0-10VDC(3 wires) 4-20mA(2 wires) RS485/Modbus
Temp. Output				0 1 2 3 4 5 6 7 8 9 A				No 0-10VDC(3 wires) 4-20mA(2 wires) PT1000, ±0.2°C@25°C PT100, ±0.2°C@25°C NTC20K,±0.2°C@25°C Ni 1000, ±0.5°C@25°C NTC10K-II, 0.2°C@25°C RS485/Modbus NTC10K-III,0.3°C@25°C NTC10K-A, 0.3°C@25°C
Temp. Range					0 1 2 3 7			No 0-50°C 0-100°C -40-60°C others
Relay						0 1		No 2xSPST(4-20mA N/A)
LCD & Keys							0 1 2	No LCD LCD & Keys

*1. H2,3,4N series current products are powered by RH circuit, so the RH circuit must be powered. Otherwise, it could not work.
*2. Only when the temperature output is 1 or 2, the temperature range 1-7 is applicable. Otherwise, always use 0 as temperature range selection.
*3. See resistance table on page 1 of this catalog.

MFDP Multi-function Display Unit/Transmitter



Applications& Features

- Designed for flush mount, measure and display environment temperature, humidity and diff. pressure
- 316L front panel, PC window, flat surface, no dust stay, good for all detergents, sanitizers and bactericides
- Parallel or alternatively display input channels 1 to 3
- Large high light 3.2” color TFT LCD display
- Multiple inputs and outputs for different applications
- High accuracy sensor, 100% field changeable
- Optional 3 analog 4~20mA/0~10V inputs signals
- Optional 3 analog 0~10V outputs signals
- Optional RS485/Modbus RTU and key functions
- Compatible to any DDC/PLC/SCADA or other data collect and control systems
- Very high performance/price ratio: replace the single channel (T/RH/DP) display instruments, provide value added multi-function combination including local measurement, displaying and networking

Specifications

Display

Display: high light 3.2” color TFT LCD, resolution 320×240
Display panel material: PC
Resolution: ±0.1 engineering unit
Channels: 1~3 channels, parallel (simultaneously) or single row(alternate) display
Engineering unit: 3 preset units, °C/°F, %RH and Pa
Update time: <1s

Housing

Front panel material: 316L stainless steel, 1.5mm thick
Back housing parts: fire-proof ABS+PC UL94 V-0 class
Protection: front panel IP65 (Not include DP and T/RH sensors)
Weight: MINI: about 380g; Horizontal: about 450g; Vertical: about 650g

Technical Specifications

Power Supply: 16~28VAC/16~35VDC
Consumption: 0.5VA
Built-in sensor:

	Temperature	Relative humidity	Diff. pressure
Range	0~50°C	0~100%RH	0~60Pa
Accuracy	0.4°C (@15~40°C)	3%(@25°C,20~80%RH	1% or 0.5%FS
Nonlinear	/	<0.1%RH	/
Repeatability	±0.1°C	±0.1%RH	/
Hysteresis	/	±1.0%RH	/
Long term drift	<0.02°C/Year	<0.25%RH/Year	<0.5%FS/Year
Response time	<90s (in slow air)	<40s (25°C, in slow air)	0.5~30s
Temp drift	/	/	<0.05%FS/°C(zero) <0.08%FS/°C(span)
Temp. comp.	/	/	0~50°C
Medium Temp.	/	/	0~60°C
Work Temp.			10xFS (over load) 15xFS (burst)

Analog inputs: max. 3×(4~20mA/0~10V); over voltage and reverse polarity protection; accuracy< 0.1%FS; load resistance < 250Ω(4~20mA) or >100KΩ(0~10V); range: default 0~50°C /0~100%RH/0~60Pa, available range -50~100°C /0~100%RH /-100~100Pa
Analog outputs: max. 3×(0~10V); over voltage and reverse polarity protection; accuracy as low as 0.2%FS; load resistance >2KΩ; range: same as analog inputs
Keys: set/reset alarm, DP re-zero, calibration, set display mode, etc.
Communication: 1 USB for parameter checking and setting, 1 RS485/Modbus RTU, R/W enable, 9600 baud rate
Terminals: max Ø1.5mm^2
Work Environment: 0~50°C, 0~95%RH (no cond.)
Storage Environment:-10~70°C
Process connection: Built-in T/RH sensor: a waterproof, air breathable filter and sensing cap on front panel. Built-in diff. pressure sensor: 2 conical nozzles, Ø 5 mm tube connection on back, or 1 pressure sampling screw on front panel.
Approval: CE

Models

Model	MFDP								Multi-function Display Unit
Temp. Hum. Input		0							N/A
		1							Analog signals (2 channels)
		2							Built-in T/Rh sensor
		8							RS485-Modbus RTU
Diff. Press. Input			0						N/A
			1						Analog signal (1 channel)
			2						Built-in DP sensor, accu. 1%
			3						Built-in DP sensor, accu. 0.5%
			8						RS485-Modbus RTU
Output				0					N/A
				1					0~10Vx1 (diff. pressure)
				2					0~10Vx2 (T/Rh)
				3					0~10Vx3 (T/Rh+DP)
				8					RS485-Modbus RTU
Keys					0				N/A
					1				3 keys
Panel Port						0			N/A
						1			1 pressure sampling screw on
Panel Type							M		MINI type
							H		Horizontal type
							V		Vertical type
Screw Hole								0	N/A
								1	4 holes at corner with SS screw

1.When selecting RS485, only the selected channel has the corresponding function, and the other channels do not have.
2.When the built-in temperature/humidity sensor is selected, the front panel has a corresponding sampling cap.
3.The total number of output channels should NOT be more than input.
4.MINI model does not have any built-in sensors and cannot have diff. pressure port on front panel.

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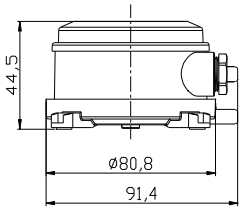
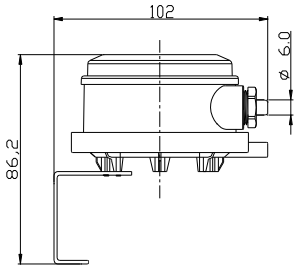
606 Adjustable Differential Pressure Switch





Applications & Features

Monitoring overpressure, vacuum and differential pressure of the air and other non-combustible, non-aggressive gases

Specifications

Adjustable range: 4 ranges, see models
Pressure limit: 7500Pa (-30~75°C)
Working and storage temperature: -30~75°C
Pressure port: Φ5.0mm ID PVC tube, +/P1 is high, -/P2 is low
Service life: over 10^6 switching cycles
Electrical contact: SPDT, 2A/250VAC, 1A/30VDC
Max. switching frequency: 6 switching cycles/min
Electrical connection: Flag or screw terminals
Repeatability: ±2%
Materials: housing PC, diaphragm silicone, contact silver plated brass
Weight: 135g with bracket, 85g without bracket
Protection: IP54
Approval: CE

Accessories (should be ordered separately)

Part No.	Description
1001	Individual accessory package: clear PVC tube 2m, static pressure tip (1003) 2 pcs, screws 4 pcs
1003	1 pc static pressure tip, straight type, 0° angle opening
1004	Individual accessory package: clear PVC tube 2m, total pressure tip (1005) 2 pcs, screws 4 pcs
1005	1 pc total pressure tip, straight type, 60° angle opening
1008	Individual accessory package: clear PVC tube 2m, static pressure tip (1009) 2 pcs, screws 4 pcs
1009	1 pc static pressure tip, L type, 0° angle opening
Kit-1001	Accessory kit, clear PVC tube 100m, static pressure tip (1003) 120 pcs, screws 240 pcs
Kit-1004	Accessory kit, clear PVC tube 100m, total pressure tip (1005) 120 pcs, screws 240 pcs
Kit-1008	Accessory kit, clear PVC tube 100m, static pressure tip (1009) 120 pcs, screws 240 pcs

1001 1003 1004 1005 1008 1009

Models

Model	606					Adjustable Air Differential Pressure Switch
Enclosure		0				With install ear
		1				No ear, with bracket
Adjustable range			0			20~300Pa
			1			50~500Pa
			2			100~1000Pa
			3			0.5~2.5kPa
Engineering unit				0		Pa
				7		mbar
				8		inch wc
				9		mm wc
Terminal					0	Flag terminal
					1	Screw terminal

606.0xxx has OEM package with 60 pcs/carton. P/N is 606.0xxx-OEM.
The accessories Kit-1001/1004/1008 can be ordered with the OEM model.

Dead Band

Part No.	Range	Dead Band
606.X0XX	20~300Pa	Typical 15Pa
606.X1XX	50~500Pa	Typical 25Pa
606.X2XX	100~1000Pa	Typical 50Pa
606.X3XX	0.5~2.5kPa	Typical 100Pa

Dead Band is factory set. Customers can not adjust.

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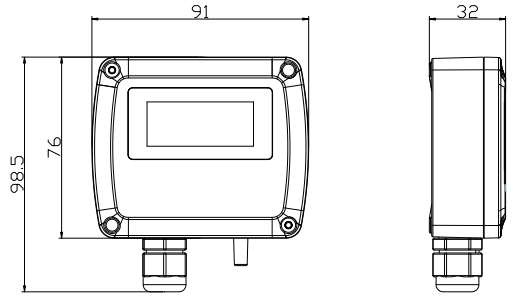
DPTL Differential Pressure Transmitter



Applications & Features

- Apply high accuracy MEMS sensor and digital technologies, can measure positive, negative or differential pressure. DPTL is for surface mount and DPTL-F is for flush mount
- It can measure system pressure of fan, filter, etc., and can apply to various clean room, biological safety cabinet, clean bench, ducts collection, medical or pharmaceutical machine, etc.
- Multiple ranges, engineering units, outputs and optional LCD
- Over voltage and reverse polarity protection for power inputs and outputs, high reliability
- Good performance with accuracy of 1.0% and range as low as 25Pa
- Function keys: zero calibrate, unit select, response time set, etc.

Specifications

Medium: non-combustible, non-corrosive air, insensitive to moisture, dust, condensation and oil
Working Temp.: -20~70°C
Medium Temp.: 0~60°C
Temp. Compensation: 0~50°C
Range: 25Pa(±12.5Pa) ~10kPa(±5kPa)
Accuracy: ±1.0%FS (±2.0%FS@25Pa range)
Long term stability: ±0.5%FS/Year
Thermal effect: <0.05%FS/°C (zero), <0.08%FS/°C (FS)
Response Time: 0.5/1/2/5s, can be set by DIP switches
Zero set: easy to reset by external key
Process Connection: 5mm ID tubing
Display: 5 digits LCD, size 44x18mm, with unit indication
Units: 5 units, selected by DIP switches
Output: 0~5V/0~10V/4~20mA(2 or 3 wires), RS485/Modbus
Output Load: ≤500Ω (current), ≥2kΩ (voltage)
Power: Voltage: 16~28VAC/ 16~35VDC
Current: 18.5~35VDC (R_L=500Ω); 8.5~35VDC (R_L=0Ω)
Housing: PC, fire retardant UL94V-0
Protection: IP65
Weight: 180g
Approval: CE
Accessories: flush mount panel (model DPTL-A), can be ordered separately

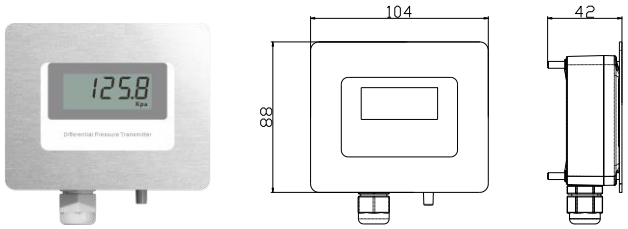
Models

Model	DPTL DPTL-F				DP transmitter Flush mount DP transmitter
Range		x			Range selection
Output			1 2 8		0~5V/0~10V/4~20mA (3 wires) 4~20mA (2 wires) RS485/Modbus
Display				0 1	N/A LCD

DPTL-F Flush Mount DP Transmitter

It's the combination of DPTL (with LCD) and flush mount panel (model DPTL-A). The specifications are the same as DPTL. And the model is DPTL-Fxx1(with LCD).

It's for flush mount in various clean room or equipment. The 316 brushed stainless steel panel does not have any dust collection, easy and safe to clean. The size is W104×H88 ×T1.5(mm). The opening is W94×H78.5×D42(mm). The LCD size is 44x18(mm).

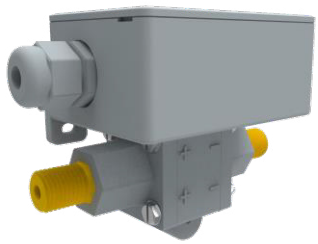


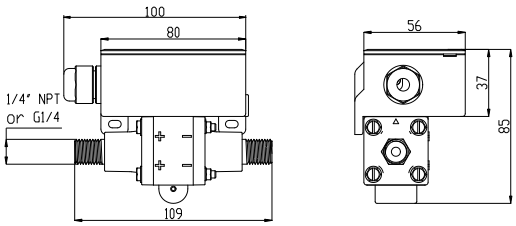
Ranges

Code	UNIT & Range & Display Resolution					
	Pa	**Pa**	**kPa**	**in wc**	**mm wc**	**mbar**
0	**0-25**	25.0	0.025	0.100	2.50	0.250
1	**0-60**	60.0	0.060	0.250	6.00	0.600
2	**0-125**	125.0	0.125	0.500	12.00	1.250
3	**0-250**	250.0	0.250	1.000	25.00	2.500
4	**0-500**	500.0	0.500	2.000	50.00	5.000
5	**0-1000**	1000	1.000	4.000	100.0	10.00
6	**0-2500**	2500	2.500	10.00	250.0	25.00
7	**0-5000**	5000	5.000	20.00	500.0	50.00
8	**0-10000**	10000	10.000	40.00	1000.0	100.00

1. Set the 5 engineering units by DIP switches and the related LCD indicator will be on.
2. For zero center models, add "Z" at the end of the model. For example, DPTL1xxZ, means the range is -30-0-30Pa. Only ranges 1~6 have this selection.

WDPS Adjustable Fluid Diff. Pressure Switch/Alarm





Application & Features

Monitor the pressure drop, overpressure and other differential pressure of non-combustible, non-aggressive liquids such as water or oil. It can be used in the control of water flow in various heat exchanger, chiller, or water pump and filter.

Specifications

Adjustable ranges and Dead Band(DB): see models

Max static pressure: 16bar

Working medium temperature: -10~70°C

Working temperature: -20~70°C

Storage temperature: -30~80°C

Electrical characteristics:

Model	WDPS	WDPS1	WDPS2
Power	-	85~250VAC	9~28VAC/DC
LED Alarm	-	Red/Green LED	Red/Green LED
Relay	SPDT,3A/30VDC, or 3A/250VAC	-	SPST, 3A,30VDC/AC
EMC	GB14536.1/GB14536.7, IEC60730-1/IEC60730-2-6		
Electrical wiring	Screw terminals		

Pressure connection: G1/4, 1/4" NPT or others

Repeatability: ±2%

Material:
Hydrolysis resistant nylon housing (flame retardant UL94V-0), copper pressure connector, NBR membrane

Weight: 370g

Protection: IP65

Approval: CE

Accessories (should be ordered separately):
Buffer Tube or Pressure Snubber should be applied according to specific application, refer to Accessories.

Models

Model	WDPS WDPS1 WDPS2			Fluid DP Switch Fluid DP Alarm (LED Alarm) Fluid DP Switch & LED Alarm
Adjustable Range and Dead Band		0 1 2 3 4		Range 8~20kPa, DB 4±2kPa Range 10~40kPa, DB 4±3kPa Range 10~100kPa, DB 5±4kPa Range 20~200kPa, DB 10±6kPa Range 100~400kPa,DB 18±13kPa
Process Connection			2 4 7	1/4 NPT G1/4 Others

Accessories (should be ordered separately)

Buffer Tube
A-S51-G/ A-S51-N

Buffer Tube
A-S52-G/ A-S52-N

Pressure Snubber
A-S53-G/

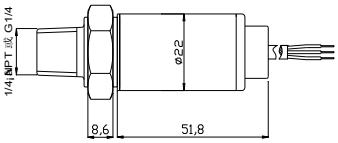
A-S53-N

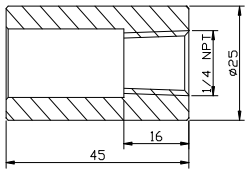
Model	Descriptions
A-S51-N	Buffer tube, straight connect, for protecting pressure instruments in water systems. SS304, temperature 150°C, pressure 2Mpa, 1/4"NPT, one end is external thread and the other is internal
A-S51-G	Buffer tube, straight connect, for protecting pressure instruments in water systems. SS304, temperature 150°C, pressure 2Mpa, G1/4, one end is external thread and the other is internal
A-S52-N	Buffer tube, 90° angle connect, for protecting pressure instruments in water systems. SS304, temperature 150°C, pressure 2Mpa, 1/4"NPT, one end is external thread and the other is internal
A-S52-G	Buffer tube, 90° angle connect, for protecting pressure instruments in water systems. SS304, temperature 150°C, pressure 2Mpa, G1/4, one end is external thread and the other is internal
A-S53-N	Pressure snubber, for protecting pressure instruments in water systems by dampening surges and pulsations. SS304, temperature 150°C, pressure 3.5Mpa, 1/4"NPT, one end is external thread and the other is internal
A-S53-G	Pressure snubber, for protecting pressure instruments in water systems by dampening surges and pulsations. SS304, temperature 150°C, pressure 3.5Mpa, G1/4, one end is external thread and the other is internal

PT Pressure Transmitter

PT

F-3





Applications & Features

For pressure measurement of compatible fluid and gas

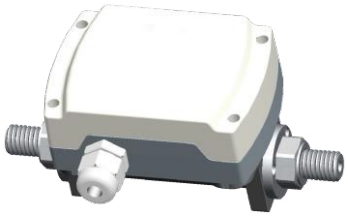
Specifications

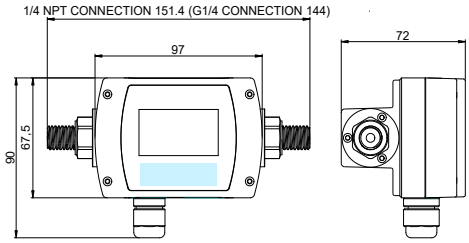
Sensor: glass micro fused silicon strain sensor
Power: 10~30VDC
Output: 4~20mA (2 wires), load 0~500Ω@10~30VDC
Range: see models
Temp. limit: Work -20~85°C; Medium -40~125°C; Compensation 0~55°C
Accuracy: ±0.5%FS (BFSL)
Stability: ≤0.5%FS/Year
Pressure limits: overload 200%FS, burst 500%FS
Response time: ≤50ms
Medium compatibility: 17-4PH stainless steel
Housing: 304 SS
Protection: IP67
Approval: CE
Accessory: F-3-N for 1/4 NPT and F-3-G for G 1/4 screw thread, should be ordered separately. Use the same packing if ordered along with PT transmitter. And it is recommended to apply the buffer tube or pressure snubber, see Accessories.

Models

Models	PT					Pressure Transmitter
Output		2				4~20mA
Range			2			0~6 bar
			3			0~10 bar
			4			0~16 bar
			5			0~25 bar
			6			0~40 bar
Process Connection				2		1/4 NPT
				4		G1/4
				7		Others
Electrical Connection					1	Cable (1m)

PDT Differential Pressure Transmitter





Applications & Features

For diff. pressure measurement of compatible fluid and gas

Specifications

Sensor: Glass micro fused silicon strain sensor

Power: Current: 18.5~35VDC (R_L=500Ω), 8.5~35VDC (R_L=0Ω),
Voltage output: 16~35VDC, 16~28VAC

Output: 4~20mA (2 wires), 0~10VDC (3 wires) or RS485

Output Load: ≤500Ω (current), ≥2kΩ (0-10VDC)

Accuracy: Typical ±0.5%FS (BFSL), see range specifications

Range: see range specifications

Display: LCD, with unit indication (kPa/mbar/in WC/bar/MPa)

Temp. limit: work -20~70°C; medium -20~85°C; compensation 0~55°C

Pressure Limit: see range specifications

Response time: ≤500ms

Medium compatibility: 17-4PH stainless steel

Housing: sensor: 17-4PH stainless steel; sensor: die cast aluminum; enclosure: fire retardant ABS+PC(UL94V-0)

Protection: IP65

Weight: 0.5kg

Approval: CE

Install bracket: Included in the packing. It is recommended to apply the buffer tube or pressure snubber, see Accessories

Models

Models	PDT					Diff. Pressure Transmitter
Output		1 2 8				0~10V 4~20mA RS485/Modbus RTU
Range			X			see range specifications
Process Connection				2 4 7		1/4 NPT G1/4 Others
Display					0 1	N/A LCD

Range specifications

Range		Pressure limits in both side ports			Accuracy	Temperature
		Rated	Overload	Burst	(BFSL)	Coefficient
Code	bar	bar	bar	bar	%FS	%FS/°C
0	0~0.5	3.5	7	17.5	1.0	0.15
1	0~1	3.5	7	17.5	0.5	0.1
2	0~2	3.5	7	17.5	0.5	0.05
3	0~4	7	14	35	0.5	0.05
4	0~6	10	20	50	0.5	0.05
5	0~10	10	20	50	0.5	0.05
6	0~10	16	32	80	0.5	0.05
7	0~16	16	32	80	0.5	0.05

The factory set engineering unit is bar. Customer can switch to others with the UNIT button on the PCB.

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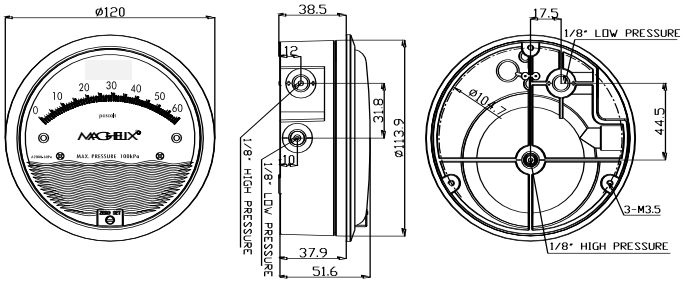
A2000/C2000 Differential Pressure Gauge

A2000

B2000



Applications & Features

- They can measure system pressure of fan, blower, filter, furnace draft and orifice plates. And they can also measure pressures in various clean room, bio-safety cabinet, clean bench, industrial cleaner, medical equipment, air sampler, pharmaceutical and grain & food machine, etc.
- 68 models available for different ranges and units
- With simple and frictionless movement, it quickly indicates air or gas pressure, either positive, negative or differential
- The design resists shock, vibration and over pressures
- Ultra-thin design: the flushed part is only 38.5mm, and the overall thickness is only 52.2mm
- Patented state of art wave shape decorative front cover
- Standard accuracy up to 2% and high accuracy up to 1%FS
- Optional mirror scale overlay eliminating parallax reading error and brushed 304 SS or chrome plated bezel for A2000
- A2000 (use trademark MAGHELIX) has very fine parts and assembly procedures to ensure extraordinary accuracy, stable and reliable for long term application. Each one have a Test Report for multiple points and precision packing. While C2000 is same A2000 but shall have ABS case and bezel.

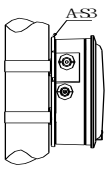
Specifications

Service: Air and non-combustible compatible gases
Housing: Die cast aluminum case and bezel, with PC cover
Protection: IP67
Accuracy: ±2%FS (±3% on 125Pa, ±4% on 60Pa) @21°C
Pressure Limits: -70 to 100 kPa
Size: 101.5mm (4") diameter dial face, 115.5 mm (4-9/16") dia. opening for flush mount
Temperature Limits: -7 to 60°C (20 to 140°F)
Connections: 1/8" NPT female high and low pressure taps, duplicated, one pair side and one pair back
Weight: 440g
Mounting method: Flush or surface in vertical position
Standard accessory: Model A-S10, including two 1/8"NPT pipe plugs, two1/8" NPT to 3/16" rubber tubing adapters and three flush mounting adapters with screws
Other Accessories: sold separately, see Accessories
Approval: RoHS (A2000)

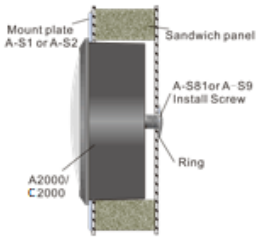
Mounting Accessories:

A-S1/A-S2

A-S3



A-S4



A-S81

A-S9

A-S11

A-S10

A-S12

A-S16

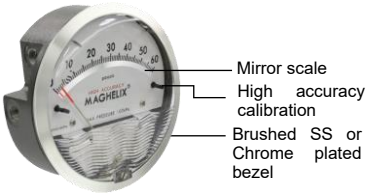
Models (For A2000, use C for ABS case and bezel)

Model Number	Range Pa	Model Number	Range in w.c
A2000-60NPa**	10-0-50	A2000-00N**	0.05-0-.2
A2000-60Pa**	0-60	A2000-00**	0-.25
A2000-100Pa*	0-100	A2000-0*	0-.50
A2000-125Pa*	0-125	A2001	0-1.0
A2000-250Pa	0-250	A2002	0-2.0
A2000-500Pa	0-500	A2003	0-3.0
A2000-750Pa	0-750	A2004	0-4.0
Zero Center Ranges Pa		A2005	0-5.0
A2300-60Pa**	30-0-30	A2006	0-6.0
A2300-120Pa*	60-0-60	A2008	0-8.0
A2300-250Pa	125-0-125	A2010	0-10
A2300-500Pa	250-0-250	A2012	0-12
Model Number	Range kPa	A2015	0-15
A2000-1KPa	0-1	A2020	0-20
A2000-1.5KPa	0-1.5	A2025	0-25
A2000-2KPa	0-2	A2030	0-30
A2000-3KPa	0-3	A2040	0-40
A2000-4KPa	0-4	Zero Center Ranges in w.c.	
A2000-5KPa	0-5	A2300-00**	.125-0-.125
A2000-8KPa	0-8	A2300-0*	.25-0-.25
A2000-10KPa	0-10	A2301	.5-0-.5
Zero Center Ranges kPa		A2302	1-0-1
A2300-1KPa	.5-0-.5	A2304	2-0-2
A2300-2KPa	1.0-0-1.0	A2310	5-0-5
Model Number	Range mm wc	Model Number	Range cm w.c.
A2000-6MM**	0-6	A2000-15CM	0-15
A2000-10MM*	0-10	A2000-20CM	0-20
A2000-15MM*	0-15	A2000-25CM	0-25
A2000-25MM	0-25	A2000-50CM	0-50
A2000-30MM	0-30	A2000-80CM	0-80
A2000-50MM	0-50	A2000-100CM	0-100
A2000-80MM	0-80	Zero Center Ranges cm w.c.	
A2000-100MM	0-100	A2300-4CM	2-0-2
A2000-150MM	0-150	A2300-10CM	5-0-5
A2000-250MM	0-250	A2300-20CM	10-0-10
A2000-300MM	0-300	Zero Center Ranges mm w.c.	
A2000-500MM	0-500	A2300-6MM**	3-0-3
		A2300-10MM*	5-0-5
		A2300-20MM	10-0-10

**Accuracy 4%; *Accuracy 3%; others accuracy 2%.

Options:

1. **Mirror Scale:** Eliminates parallax reading error, to order add suffix -M.
2. **Brushed 304 SS Bezel:** Corrosion resistant bezel, to order add suffix -S.
3. **Chrome plated bezel:** to order add suffix -C.
4. **High Accuracy Calibration (A2000):** Calibrated to accuracy 2%/1.5/1% respectively, which are as twice as standard MAGHELIX gages, with Mirror Scale and Calibration Certificate, to order add suffix -H.
5. **Customer defined color scale: Max. 3** color (red-yellow-green) to indicate the alarm status. to order add suffix –Y.



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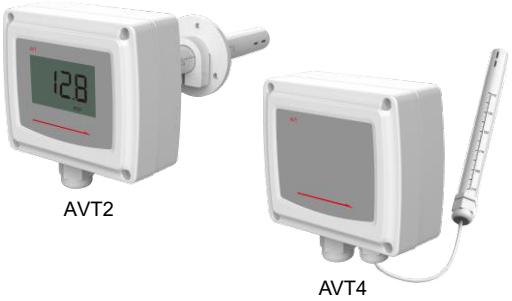
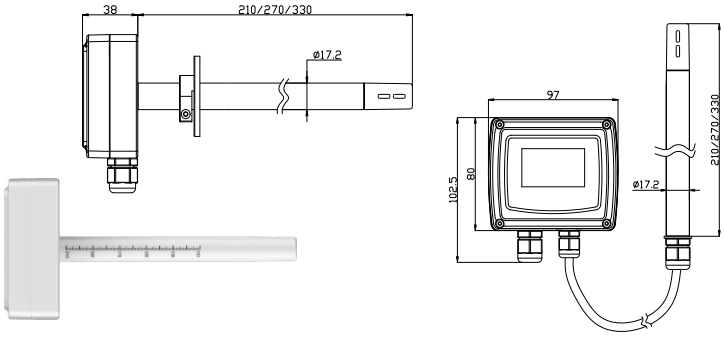
AVT Air Velocity Transmitter





Applications & Features

- It is designed for air velocity monitoring and controlling in the ventilation system and reducing energy consumption in BMS and various HVAC application. It is applied for single point air velocity measurement. AVT2 is for duct mount, AVT4 is for remote installation
- Based on thermal anemometer principle, use innovative and sensitive hot-film sensor, which is insensitive to dust and dirt, easy to install and maintain
- No moving parts, provide accurate, reliable, sensitive and long-term measurement, with good temp. compensation
- Digital technology applied to ensure output accuracy
- Over voltage and reverse polarity protection with high reliability and anti-interference capacity
- Multiple outputs, ranges and optional LCD display
- Innovative probe design with various lengths available with scales on

Specifications

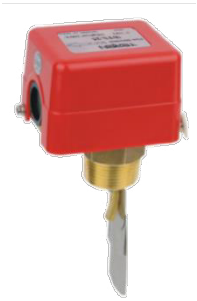
Air velocity sensor: Hot-film sensor
Range: 0~5/10/15/20m/s or 0~16/32/48/64ft/s, jumper selectable
Accuracy: m/s:±(0.2m/s+5% reading) or ±(0.2m/s+3% reading) @0.5~20m/s; ft/s:±(0.65ft/s +5% reading) or ±(0.65ft/s +3% reading)@1.6~64ft/s 25°C, 55%RH, 1013hPa
Response time: typical 2s
Angle dependence: < 3%reading @ | Δα | < 10°
Temperature compensation: 10~40°C
Temp. output(option): range 0~50°C, accuracy <±0.5°C@25°C
Output: 4~20mA(3 wires), 0~10/0~5VDC, RS485/Modbus
Output Load: ≤500Ω(current), ≥2kΩ(voltage)
Display: LCD, with unit m/s or ft/s, DIP switch selectable
Power: 16~28VAC/16~35VDC
Working Environment: -20~70°C, 0~95%RH(Non cond.)
Housing: fire retardant PC (UL94 V-0)
Protection: IP65
Weight: 440g
Approval: CE

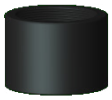
Models

Model	AVT2 AVT4					Duct mount air velocity transmitter Remote mount air velocity transmitter
Accuracy		3 5				±(0.2m/s+3% reading) ±(0.2m/s+5% reading)
Output			1 8			4~20mA/0~10V/0~5VDC RS485/Modbus
LCD Display				0 1		N/A LCD
Probe Length					1 2 3	210 mm 270 mm 330 mm

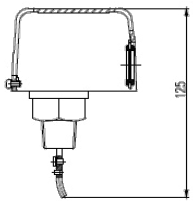
1. All products are factory set to 4-20mA as output default, and can be set to 0-10V or 0-5V by DIP switch.
2. When temperature output is needed, add suffix -T after the model number. And the output is the same as air velocity

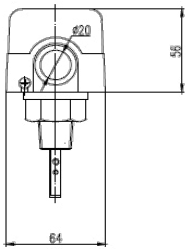
WFS Water Flow Switch

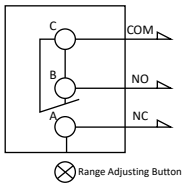




F-5







Flow decrease: C-B close

Flow increase: C-A close

Applications & Features

The paddle type WFS is designed to monitor and control the flow rate of water, chilled water, cooling water or other liquid system.

Specifications

Contact: SPDT, 10A/250VAC

Paddle materials: Stainless Steel

Medium connection: Brass, 1” NPT

Electrical connection: Screw terminals

Switch body materials: steel

Cover materials: ABS

Contact cycle: 500K

Environment temp.: 5~50°C

Medium temp.: 5~100°C

Working pressure: 1.0Mpa

Max pressure: 1.6Mpa

Weight: 0.5Kg

Accessory: Model F-5, carbon steel, should be ordered separately. When ordered along with the WFS, it is packed in the same package

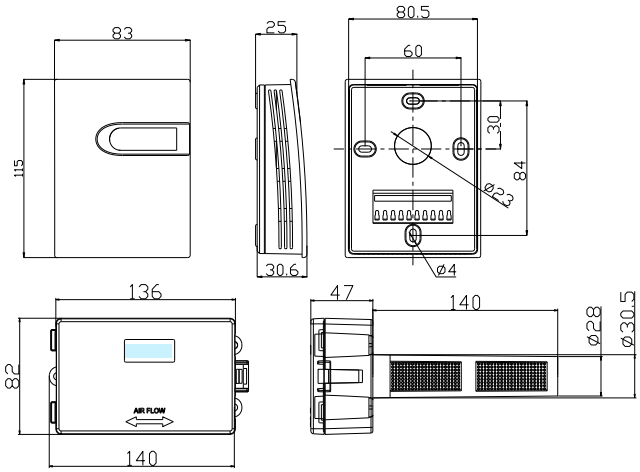
Paddles Selection

ITEM	Range liter/min	D Band liter/min	Pipe		Paddle number
			in	mm	
1	16~32	6	1	25	1
2	22~50	8	1.25	32	2
3	30~72	9	1.5	40	2
4	55~110	15	2	50	2
5	70~130	20	2.5	65	3
6	105~200	30	3	80	3
7	250~480	50	4	100	4
8	480~920	90	5	125	4
9	720-1420	120	6	150	5
10	1420-2850	200	8	200	5

CDT Carbon Dioxide (CO_2) / Temperature Transmitter

CDTW

CDTD



Applications & Features

- CDT series carbon dioxide (CO_2) & temperature transmitters are designed for monitoring & controlling indoor air quality and temperature
- CDTW is suitable for wall mount and CDTD is suitable for duct mount
- High performance NDIR digital sensor and circuit, ensure precise measurement and temperature compensation
- Multiple optional RTD or thermistor sensors, compatible with a variety of control systems
- Stable, reliable and fast response
- 15 years of CO_2 sensor life without maintenance
- All electrical terminals are on the inside bottom, avoid any possible destroy to PCB when wiring (CDTW)
- Digital technology applied, multiple outputs optional, over voltage and reverse polarity protection, high reliability and anti-interference capability
- Large LCD with unit indicator (CDTW), display carbon dioxide (CO_2) and temperature alternatively (no temperature display for RTD or thermistor models)

Specifications

Carbon dioxide (CO_2)

Sensor: NDIR sensor, with ABC algorithm*
Sampling Method: diffusion
Accuracy: (40+3%MV) ppm
Response time(T90): ＜120s (30cc/min, low airflow)
Drift: ＜±10ppm/year
Range: 0~2000ppm (measure range 400~2000ppm)
Output: 4~20mA, 0~10V, RS485/Modbus

Temperature

Sensor: Digital, RTD or thermistor, see models
Range: 0~50°C
Accuracy: see accuracy table
Output: 4~20mA, 0~10V, RS485/Modbus or RTD/ thermistor

Power supply: 16~28VAC/16-35VDC
Load resistance: ≤500Ω (Current output), ≥2kΩ (Voltage output)
Display: Optional LCD Display (CDTW)
Display resolution: 1ppm, 0.1°C
Working environment: 0~50°C, 0~95%RH (Non-cond.)
Temp. compensation: 0~50°C
Storage temperature: -20~60°C
Housing material: fire retardant PC(UL94V-0) (CDTW), fire retardant ABS(UL94V-0) (CDTD)

Protection: IP30 (CDTW), IP54 (CDTD)
Weight: 175g(CDTW),415g(CDTD)
Approval: CE
***ABC algorithm:** Automatic Baseline Correction, it constantly keeps track of the sensor's lowest reading over a few days interval and slowly corrects for any long-term drift detected as compared to the expected fresh air value of 400 ppm CO_2.

Models

Model	CDTW CDTD				Wall mount CO_2 / Temp. Transmitter Duct mount CO_2 / Temp. Transmitter
CO_2 Output		1 C			4~20mA/0~10VDC RS485/Modbus
Temp. Output			1 3 4 5 6 7 9 A C		4~20mA / 0~10VDC PT1000,±0.2°C @25°C PT100,±0.2°C @25°C NTC20K, ±0.2°C @25°C Ni1000, ±0.5°C @25°C NTC10K-II, ±0.2°C @25°C NTC10K-III, ±0.3°C @25°C NTC10K-A, ±0.3°C @25°C RS485/Modbus
Display (CDTW)				0 1	N/A LCD

*1. All products are factory set to 4~20mA as output default, and can be set to 0~10V by jumper on the PCB
*2. See resistance table on page 1 of this catalog.

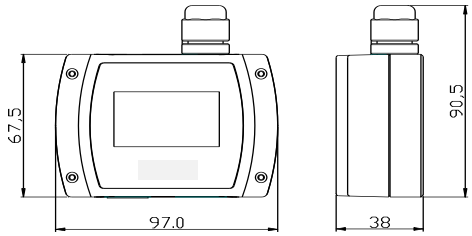
Accuracy table for temperature

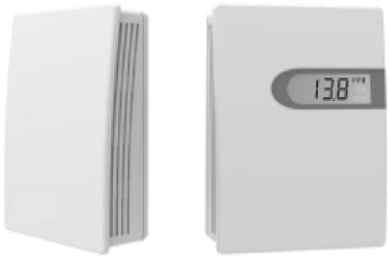
Outputs	CDTW	CDTD
0~10V DC	<±0.5°C@10~40°C	<±0.5°C@10~40°C
4~20mA	<±0.8°C@10~40°C	<±0.5°C@10~40°C
RS485/Modbus	<±0.5°C@10~40°C	<±0.5°C@10~40°C
RTD/ thermistor	See models	See models

* When select RTD/ thermistor, CDTW total error will be 0.5°C more than the accuracy in the models.

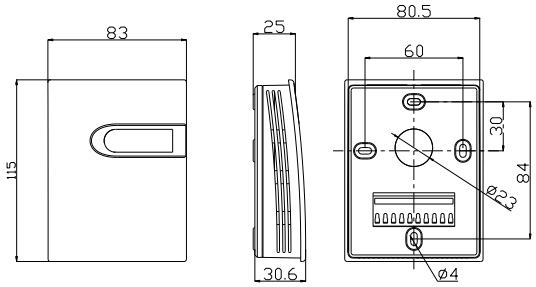
CMWL/CMWNL Carbon Monoxide (CO) Transmitter

CMWL





CMWNL



Applications & Features

- It's necessary to control the ventilation of car park and vehicle maintenance and test work shop according to many building's HVAC regulations. Considering of energy efficiency, demand-controlled ventilation (DCV) is needed to provide enough fresh air according to CO concentration. These transmitters are designed for the control of ventilation system to safety and energy saving operations
- Electrochemical sensor gives good long-term accuracy, sensitivity and reliability
- The sensor has more than 5 years life span to protect customer's investment, long-term stable performance and low drift, only need periodical recalibration as long as 12 months or more
- Digital technology applied, multiple outputs optional, over voltage and reverse polarity protection, high reliability and anti-interference capability
- Different housings meet different installation requirements, CMWL is for wall mount with better protection, while CMWNL for general room application

Specifications

CO sensor: Electrochemical gas sensor
Sampling Method: Diffusion
Range: 0~100ppm or 0~300ppm
Accuracy: ±5% FS@25°C, typical ±10% FS@5~50°C
Resolution: 1 ppm
Repeatability: <±3%FS
Stability: <±5%/year@0-100ppm, <±10%/year@0-300ppm
Pressure range: standard atmospheric pressure ±10%
Service life: more than 5 years
Response time (T90): < 60s
Warm-up time: < 1 min
Load Resistance: ≤500Ω (current output), ≥2kΩ (voltage output)
Power: Current: 18.5~35VDC (R_L=500Ω) 8.5~35VDC (R_L=0Ω)
Voltage: 16~28VAC/16~35VDC
Output: 4~20mA (2 wires), 0-10VDC, RS485 / Modbus
Work environment: 5~50°C(continuous),
15~90% RH (Non- cond.)
Storage Temperature: -10~55°C
Housing Fire retardant PC(UL94V-0) (CMWNL),
Fire retardant ABS+PC(UL94V-0) (CMWL)
Protection: IP33 (CMWL), IP30 (CMWNL)
Weight: 190g (CMWL), 160g(CMWNL)
Agency Approval: CE

Models

Model	CMWL CMWNL				Wall mount CO transmitter Room CO transmitter
Output		1 2 8			0~10VDC(3 wires) 4~20mA(2 wires) RS485/ Modbus
Range			0 1		0~100ppm 0~300ppm
Display				0 1	N/A LCD

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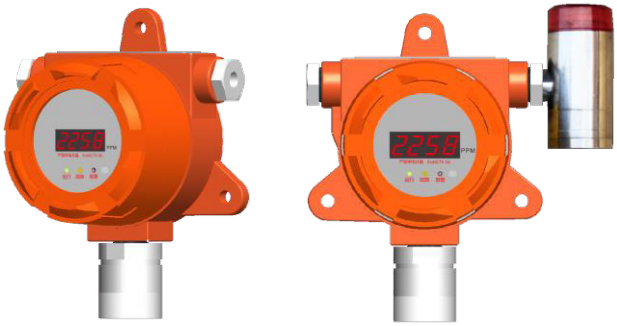
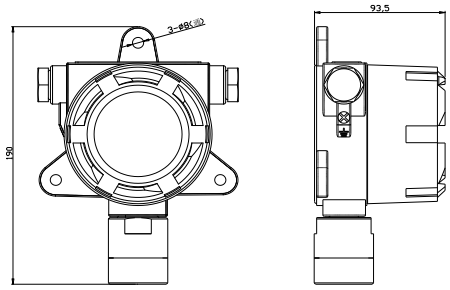
G3Ex Explosion Proof Combustible/Toxic Gas Detector





Applications & Features

- Industrial die cast aluminum explosion proof housing, with the sensor module placed in a separated metal probe chamber, ensure electrically isolated from the housing
- Moisture and corrosion resistant, IP66 protection rate, can be used in various harsh and hazardous environments
- Professional high sensitivity gas sensors, stable signal, high precision, wide measuring range and good linearity
- State of art housing, easy installation
- Modular sensor assembly, easy replacement and maintenance
- Optional explosion proof audible & visual alarm and remote controller
- Meet explosion proof standards GB 3836.1-2010 and GB 3836.2-2010 with certificate Ex d ⅡC T6 Gb. Apply for zone 1&2 hazardous area where there are explosive mixtures of IIA, IIB, IIC, T1-T6 combustible gas, vapor and air

Specifications

Gases and specifications: see the table below
Power: 18~30VDC
Output: 0~10V, 4~20mA (3 wires), RS485/Modbus
Relay: SPST, 3A/30VDC
Load: ≥2kΩ (0-10V), ≤500Ω (4-20mA)
Display: LED digital display, power/fault/alarm LED indicator
Operating condition: combustible gas -40~70°C, toxic gas -20~55°C, 10~95%RH(Non-cond.), pressure 86~106kPa
Housing: die cast aluminum housing, SS probe and SS sintered mesh filter
Protection: IP66

Agency Approvals: Ex d ⅡC T6 Gb, ATEX (2014/34/EU), EMC (2014/30/EU, EN50270), CMC Metrological Certificate
Weight: 1.4kg
Explosion proof audible & visual alarm: model ASG24VDC, sound intensity>=90dB@0.1m, light intensity 1800~2400mcd, to be ordered separately
Intrinsically safe infrared remote controller: model FYF3, for field programming, to be ordered separately
General infrared remote controller: model YK-0, for safe zone programming, to be ordered separately

Models

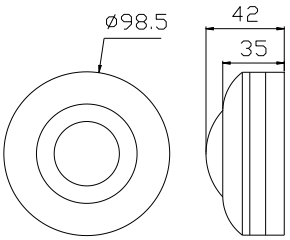
Model	G3Ex				Ex-proof Combustible/Toxic Gas Detector
Gas Type & Range		1			O_2, 0~30% VOL
		2			H_2S, 0~100 μmol/mol
		3			CH_4, 0~100%LEL
		4			CO, 0~100 μmol/mol
		5			CO, 0~500 μmol/mol
		6			CO, 0~1000 μmol/mol
		7			NO_2, 0~20 ppm
		8			Combustible, 0~100% LEL
		9			Other
Output			1		0~10V
			2		4~20mA(3 wires)
			8		RS485/Modbus
Relay Output				0	NA
				1	1×SPST,3A/30VDC

Detected Gases and Specifications

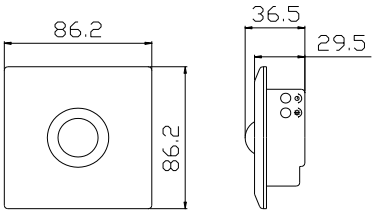
Code	GAS	Sensor type	Range	Accuracy	Repeatability	Response time	Sensor Life*	Remark
1	O_2	Electrochemical	0-30%VOL	0.7%VOL	1%	60S	2-3year*	Resolution 0.1% VOL
2	H_2S	Electrochemical	0-100μmol/mol	5μmol/mol	2%	60S	2-3year*	Drift<+/-10 ppm/year
3	CH_4	Catalytic Combustion	0-100%LEL	5%FS	2%	30S	2-3year	LEL:5.0V% Resolution 0.1% LEL
4	CO	Electrochemical	0-100μmol/mol	5μmol/mol	2%	60S	2-3year*	Resolution 1μmol/mol
5	CO	Electrochemical	0-500μmol/mol	5μmol/mol	2%	60S	2-3year*	Resolution 1μmol/mol
6	CO	Electrochemical	0-1000μmol/mol	5μmol/mol	2%	60S	2-3year*	Resolution 1μmol/mol
7	NO_2	Electrochemical	0-20 ppm	3%FS	2%	60S	2year *	Resolution 0.1 ppm
8	Combustible	Catalytic Combustion	0-100%LEL	5%%FS	2%	30S	2-3year	LEL:5.0V%(CH_4) Resolution 0.1% LEL

*1: @23±3°C, 40±10%RH

OS Occupancy Sensor/ Detector



OS-C



OS-W

Applications & Features

- Suitable for passageway, corridor, toilet, basement, garage and other public places, such as lighting, exhaust fan and other automatic switch control. OS-W is wall mount and OS-C is ceiling mount
- Based on PIR infrared sensor and photosensitive sensor combination technology, high sensitivity, strong reliability, safe and convenient, intelligent energy saving
- Fully automatic induction, switch on for occupancy, delay off for vacancy automatically
- Application of photosensitive automatic control, no induction in day or high illumination circumstance, illumination can be adjusted
- Automatic random delay, switch on for occupancy and continue to turn on if detecting activity, and delay off until detecting no activity
- Temperature compensation and anti RFI/EMI
- Light and state of art housing, easy installation and using

Specifications

Sensor: PIR infrared sensor, photo resistance sensor

Power supply: 20~28VDC

Output: SPST, 10A resistive / 4A inductive, 30VDC/250VA

Life circle: 10^5 times

Light control range (adjustable): Night/Full day (default night)

Delay closing time (adjustable): OS-W:15s~20 min(default 15s)
OS-C: 2s~30 min(default 16s±30%)

Detect area: cone angle 140°, distance 5-8 m(<=24°)

Mount Height: wall mount height is about 1.5m, and ceiling mount height is about 2~4m

Working environment: -20~50°C, 0~95%RH(Non-cond.)

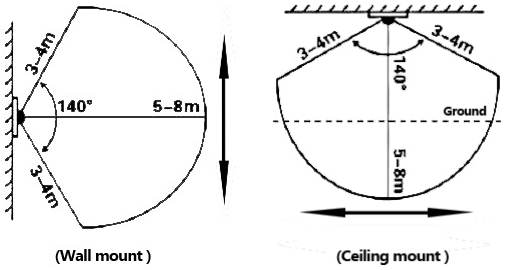
Storage temperature: -30~70°C

Housing: fireproof ABS(except Fresnel lenses), IP30

Weight: OS-C:120g, OS-W:110g

Approval: CQC

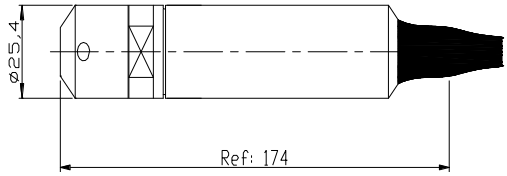
Detect area diagram:



Models

Models	OS-W OS-C	Wall mount occupancy sensor / detector Ceiling mount occupancy sensor / detector

LT Submersible Level Transmitter



Applications & Features

- Measuring liquid level, based on the proportion principle of liquid static pressure with height
- Applied to water supply, industrial process control, water conservancy, environmental protection, chemical industry and other liquid level measurement and control
- All stainless-steel integrated structure, anti-blocking, anti-shock, multiple waterproof design, easy to install
- Built-in circuit with high precision, stability and reliability
- Ventilation waterproof wire, internal condensation prevention design

Specifications

Power: 9~36VDC

Range: see models

Output: 4~20mA (2 wires)

Accuracy: ≦ ±0.5%FS (BFSL)

Load: <(U-9)/0.02 Ω，U for power

Overload pressure: 200%FS

Response time: ≤50ms

Working temperature: -20~60°C

Medium temperature: -40~85°C, ≤95%RH

Stability: ±0.1%FS/Year

Thermal effect:±0.05%FS/°C

Materials: Body, 304 stainless steel;
Diaphragm, 316 stainless steel

Protection: IP68

Approval: CE

Models

Model	LT			Level Transmitter
Range		xx		1~50m H_2O
Cable			Cxx	Cable length, m

Frequently used ranges:1,2,3,4,5,6,8,10,12,15m H_2O
Frequently used cables: 3,4,5,6,7,8,10,12,14,16m
Frequently used models: LT03C05, LT05C06, LT10C12

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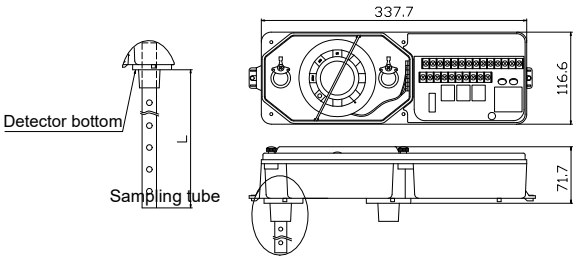
SL-2000-P Duct Smoke Detector



Applications & Features

- Originated from Air Product & Controls (APC), USA. Installed in ventilation duct, combined with the protective zone design, it can detect the smoke entering the duct effectively
- Applying photoelectric technology, when smoke particles concentration in the sampled air reaches a certain value, it will send out an alarm signal, and link to the alarm and switch off the fans or other equipment to prevent toxic and combustible gases from entering the protected area
- Alarm contacts are used for interfacing with controllers or other devices (alarm or start), HVAC control and other auxiliary functions. It also provides output terminals for a variety of remote accessories such as horns, flashing lights, remote indicators and test/reset switches or buttons
- The cover has missed-fill warning feature
- Sampling tubes are available in various lengths and are recommended to cross the entire length of the duct

Specifications (see details from the manual of APC)

Sensor: photoelectric smoke detector

Air Velocity: 0.5~20 m/s (100~4000ft/min)

Work Environment: 0~60°C, 0~90%RH (Non-cond.)

Power: 24VDC/AC, 115/240VAC, see details on the manual

Wiring: 4 lines

Sensitivity test: see label on the product

Alarm Contacts: 2xSPDT, 10A@115VAC, 5A@230VAC, 5A@30VDC
1xSPST,0.5A@230VAC,2A@30VDC

Failure Contacts: 1xSPDT, 10A@115VAC, 5A@230VAC, 5A@30VDC

Electrical connection: screw terminals

Enclosure: Gray PC bottom box and transparent upper cover (UL94-V0)

Protection: NEMA1

Weight: 1.13kg (excluding sampling tube)

Approvals: UL, FM, MEA

Models

Model	Insert Length	Apply for Duct Width
STN1	300mm (1 ft)	<0.3m (1 ft)
STN1.5	450mm (1.5 ft)	0.3-0.6m (1-2 ft)
STN3	900mm (3 ft)	0.6-1.2m (2-4 ft)
STN5	1500mm (5 ft)	1.2-2.4m (4-8 ft)
STN10	3000mm (10 ft)	2.4-3.7m (8-12 ft)

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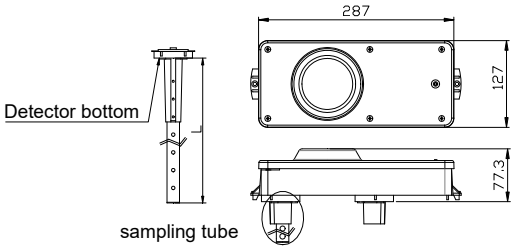
USC9210 Duct Smoke Detector



Applications & Features

- Designed for detecting earlier smoke presence from various ducts of HVAC or ventilation systems
- Utilizes photoelectric technology, senses the air sampled from the sampling tube extended into the ventilation duct. When sufficient smoke is sensed, an alarm signal will be initiated for shutting off fans or other equipment, to prevent the toxic smoke and fire gases from entering protected areas, and stop the spread of fire through ventilation ducts
- Alarm, supervisory and auxiliary relay contacts are available for control panel interface, HVAC equipment and other similar functions
- With self-diagnosis technology, it can diagnose power supply abnormal, communication failure, cover dislocation, etc., and judge the problem through the flashing LED, to improve stability and reliability
- Supports 2-bus input for accessing the fire bus system
- Sampling tubes are available in various lengths and are recommended to cross the entire length of the duct

Specifications (see details from the manual of APC)

Sensor: photoelectric smoke detector

Air Velocity: 1.0~20 m/s (200~4000ft/min)

Environment Work: -20~70°C, 0~90%RH (Non-cond.)

Storage: -30~70°C

Power: (20~29VDC) ±1V or 2-bus input

Monitor current: 35mA@24VDC

Alarm current: 55mA@24VDC

Alarm response time: 15s

Alarm relay: SPST, 2A @30VDC/125VAC

Failure relay: SPST, 2A @30VDC/125VAC

Auxiliary relay: 2xSPST, 2A @30VDC/125VAC, can be set to alarm or failure relay by DIP switch

LED Indicators: Running (red/green), Fault (yellow)

Electrical connection: screw terminals

Enclosure: Gray PC bottom box and transparent upper cover (UL94-V0)

Protection: IP54

Weight: 1kg (excluding sampling tube)

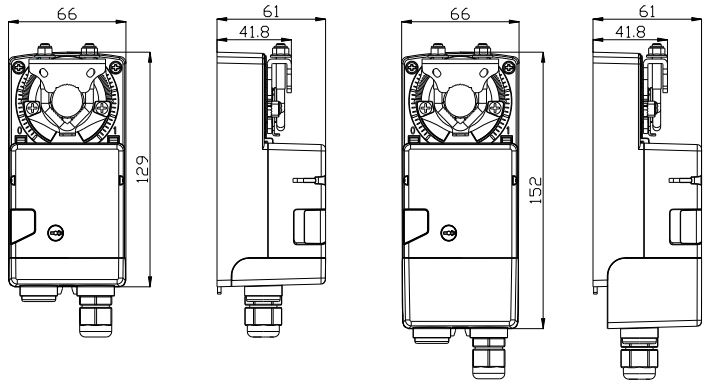
Approvals: CCCF

Models

Model	Insert Length	Apply for Duct Width
STN1	300mm (1 ft)	<0.3m (1 ft)
STN1.5	450mm (1.5 ft)	0.3-0.6m (1-2 ft)
STN3	900mm (3 ft)	0.6-1.2m (2-4 ft)
STN5	1500mm (5 ft)	1.2-2.4m (4-8 ft)
STN10	3000mm (10 ft)	2.4-3.7m (8-12 ft)

DA05 Damper Actuator, 5Nm Series

24V 220V



24V 220V

Applications & Features

- Special designed for the control of dampers of various HVAC system and equipment
- Easily assemble: connect the damper and actuator, the adapter can self-centered the connection shaft. Can be applied to dampers with different size shaft
- Mechanical limit: can be adjusted within the full stroke
- Mechanical position indication: can adjust the indicator freely
- Manual operation: can be manual operated with the button, convenient for user to manually adjust the actuator when the power is off or the control signal input is absence
- Multi-function selection knob: select control signal, rotate direction and stop/shutdown status, very convenient to set multiple operating modes
- Highly reliable: full stroke overload protection function, no limit switch, self-stop at the end point
- Removable terminal cover design, convenient and easy for installation and wiring
- High service life: using industrial design, stable and reliable operation, long life
- External position switch: the position setpoint can be adjusted freely and installed on site. The wiring direction can be conveniently set to left or right

Specifications

Torque: 5 Nm
Damper size: ≤1 m^2(see details in the manual)
Direction of rotation: set by knob
Position indicator: mechanical
Manual override: set by push button
Angle of rotation: max. 95°
Running time: 120s
Connection shaft: circular Φ6~15mm, square 4.5~11mm, min. length 43mm
Power:

Power Range	19.2~28.8V AC/DC	85~265V, 50/60Hz
Consumption	Act 1W, Hold 0.5W	Act 1.5W, Hold 0.8W
Protection	class III-low voltage safe	class II-totally insulated

Control Signal: on/off, 3 pos; 0~10V (input impedance 250kΩ); 4~20 mA (input impedance 200Ω); RS485/Modbus
Internal feedback: 0(2)~10VDC (max. output 1mA); 4~20mA (max. load 500Ω); RS485/Modbus-RTU
Internal switch: 2×SPDT, 0.5A/30VDC
External position switch: 1 or 2, SPDT, 0.5A/250VAC, must be ordered separately, see External Position Switch
Electrical connection: screw terminal
Mode of operation: Type 1 to EN60730-1
Work temp.: -30~50°C, 95%RH, no cond. (EN60730-1)
Storage temp.: -40~80°C
Noise level: ≤35dB
Protection: IP54
Weight: 0.58kg (24V models)
Approval: CE

Models

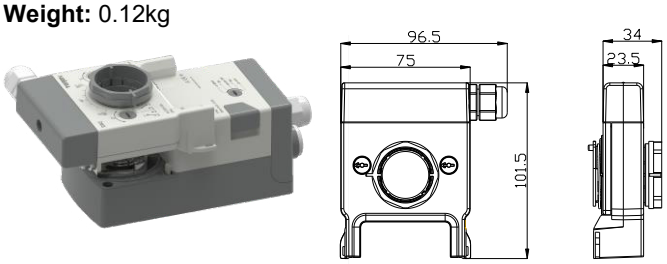
Model	DA05					5Nm Damper Actuator
Power		0 1				24VAC/DC 85~265VAC
Control signal			0 1 2 8			on/off, 3-pos 0(2)~10VDC 4~20mA RS485/Modbus RTU
Internal feedback				0 1 2 8		N/A 0(2)~10VDC 4~20mA RS485/Modbus RTU
Internal switch					0 1	N/A 2xSPDT, 0.5A/30VDC

When control signal is 0, feedback should be 0. If control signal is 1, feedback may be 0 or 1. If control signal is 2, feedback may be 0 or 2. If control signal is 8, feedback may be 0 or 8.

External Position Switch (must be ordered separately):

The external position switch can feedback the position status of the actuator. Suitable for field installation, can replace the function of the internal switch and can adjust the position set point freely.

Model: SW1(1xSPDT,0.5A/250VAC); SW2(2xSPDT,0.5A/250VAC)
Work temp.: -30~50°C, 0~95%RH, no cond. (EN60730-1)
Storage temp.: -40~80°C
Power Protection: class II-totally insulated
Enclosure Protection: IP54
Weight: 0.12kg



Note 1: The content of this page is a complete catalog of DA05 products. But the subsequent content is the instruction manual of its 24VDC/AC products. 220VAC products have an independent manual.

Note 2: The product's standard torque is 5 Nm, usually is applicable for dampers with size less than 1 m^2. However, due to the differences of materials, structures, installations, and the applied ventilation system's pressure or flow condition, the needed torque may be different.

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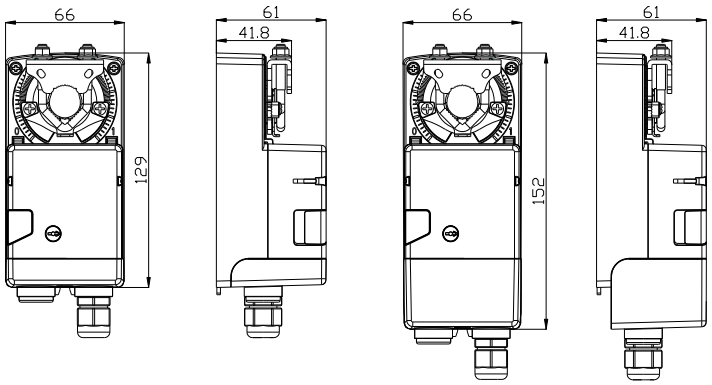
DA10 Damper Actuator, 10Nm Series

24V 220V



24V 220V

Applications & Features

- Special designed for the control of dampers of various HVAC system and equipment
- Easily assemble: connect the damper and actuator, the adapter can self-centered the connection shaft. Can be applied to dampers with different size shaft
- Mechanical limit: can be adjusted within the full stroke
- Mechanical position indication:can adjust the indicator freely
- Manual operation: can be manual operated with the button, convenient for user to manually adjust the actuator when the power is off or the control signal input is absence
- Multi-function selection knob: select control signal, rotate direction and stop/shutdown status, very convenient to set multiple operating modes
- Highly reliable: full stroke overload protection function, no limit switch, self-stop at the end point
- Removable terminal cover design, convenient and easy for installation and wiring
- High service life: using industrial design, stable and reliable operation, long life
- External position switch: the position setpoint can be adjusted freely and installed on site. The wiring direction can be conveniently set to left or right

Specifications

Torque: 10 Nm
Damper size: ≤2 m^2(see details in the manual)
Direction of rotation: set by knob
Position indicator: mechanical
Manual override: set by push button
Angle of rotation: max. 95°
Running time: 120s
Connection shaft: circular Φ8~17mm, square 5.8~12mm, min. length 43mm

Power:

Power Range	19.2~28.8V AC/DC	85~265V, 50/60Hz
Consumption	Act 1.5W, Hold 0.5W	Act 2.5W, Hold 0.8W
Protection	class III-low voltage safe	class II-totally insulated

Control Signal: on/off, 3 pos; 0~10V(input impedance 250kΩ); 4~20 mA (input impedance 200Ω); RS485/Modbus
Internal feedback: 0(2)~10VDC (max. output 1mA); 4~20mA (max. load 500Ω); RS485/Modbus
Internal switch: 2×SPDT, 0.5A/30VDC
External position switch: 1 or 2, SPDT, 0.5A/250VAC, must be ordered separately, see External Position Switch
Electrical connection: screw terminal
Mode of operation: Type 1 to EN60730-1
Work temp.: -30~50°C, 95%RH, no cond. (EN60730-1)
Storage temp.: -40~80°C
Noise level: ≤40dB
Protection: IP54
Weight: 0.64kg (24V models)
Approval: CE

Models

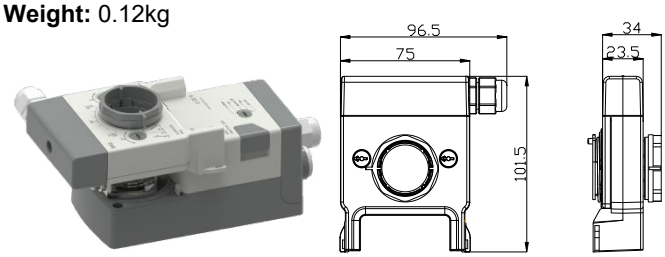
Model	**DA10**					**10Nm Damper Actuator**
Power		0 1				24VAC/DC 85~265VAC
Control signal			0 1 2 8			on/off, 3-pos 0(2)~10VDC 4~20mA RS485/Modbus RTU
Internal feedback				0 1 2 8		N/A 0(2)~10VDC 4~20mA RS485/Modbus RTU
Internal switch					0 1	N/A 2xSPDT, 0.5A/30VDC

When control signal is 0, feedback should be 0. If control signal is 1, feedback may be 0 or 1. If control signal is 2, feedback may be 0 or 2. If control signal is 8, feedback may be 0 or 8.

External Position Switch (must be ordered separately):

The external position switch can feedback the position status of the actuator. Suitable for field installation, it can replace the function of the internal switch and can adjust the position set point freely.

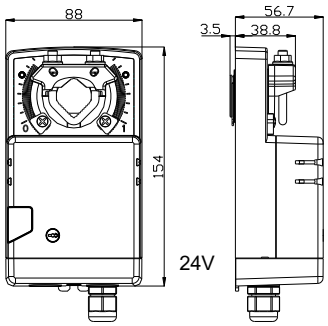
Model: SW1(1xSPDT,0.5A/250VAC); SW2(2xSPDT, 0.5A/250VAC)
Work temp.: -30~50°C, 0~95%RH, no cond. (EN60730-1)
Storage temp.: -40~80°C
Power Protection: class II-totally insulated
Enclosure Protection: IP54
Weight: 0.12kg

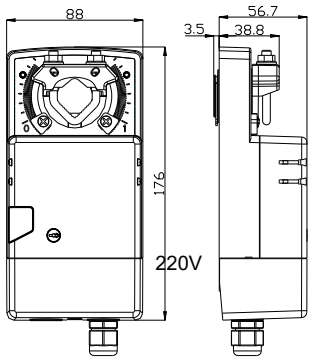


Note 1: The content of this page is a complete catalog of DA10 products. But the subsequent content is the instruction manual of its 24VDC/AC products. 220VAC products have an independent manual.

Note 2: The product's standard torque is 10 Nm, usually is applicable for dampers with size less than 2 m^2. However, due to the differences of materials, structures, installations, and the applied ventilation system's pressure or flow condition, the needed torque may be different

DA20 Damper Actuator, 20Nm Series





Applications & Features

- Special designed for the control of dampers of various HVAC system and equipment
- Easily assemble: connect the damper and actuator, the adapter can self-centered the connection shaft. Can be applied to dampers with different size shaft
- Mechanical limit: can be adjusted within the full stroke
- Mechanical position indication:can adjust the indicator freely
- Manual operation: can be manual operated with the button, convenient for user to manually adjust the actuator when the power is off or the control signal input is absence
- Multi-function selection knob: select control signal, rotate direction and stop/shutdown status, very convenient to set multiple operating modes
- Highly reliable: full stroke overload protection function, no limit switch, self-stop at the end point
- Removable terminal cover design, convenient and easy for installation and wiring
- High service life: using industrial design, stable and reliable operation, long life
- External position switch: the position setpoint can be adjusted freely and installed on site. The wiring direction can be conveniently set to left or right

Specifications

Torque: 20 Nm
Damper size: ≤4 m^2(see details in the manual)
Direction of rotation: set by knob
Position indicator: mechanical
Manual override: set by push button
Angle of rotation: max. 95°
Running time: 150s
Connection shaft: Circular Φ10~20mm, square 8~14mm, min. length 43mm

Power:

Power Range	19.2~28.8V AC/DC	85~265V, 50/60Hz
Consumption	Act 3W, Hold 0.8W	Act 3.5W, Hold 1.2W
Protection	class III-low voltage safe	class II-totally insulated

Control Signal: on/off, 3 pos; 0~10V(input impedance 250kΩ); 4~20 mA (input impedance 200Ω); RS485/Modbus
Internal feedback: 0(2)~10VDC (max. output 1mA); 4~20mA (max. load 500Ω); RS485/Modbus-RTU
Internal switch: 2×SPDT, 0.5A/30VDC
External position switch: 1 or 2, SPDT, 0.5A/250VAC, must be ordered separately, see External Position Switch
Electrical connection: screw terminal
Mode of operation: Type1 to EN60730-1
Work temp.: -30~50°C, 95%RH, no cond. (EN60730-1)
Storage temp.: -40~80°C
Noise level: ≤40dB
Protection: IP54
Weight: 1kg (24V models)
Approval: CE

Models

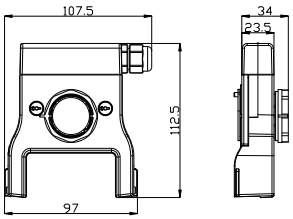
Model	DA20					20Nm Damper Actuator
Power		0 1				24VAC/DC 85~265VAC
Control signal			0 1 2 8			on/off, 3-pos 0(2)~10VDC 4~20mA RS485/Modbus RTU
Internal feedback				0 1 2 8		N/A 0(2)~10VDC 4~20mA RS485/Modbus RTU
Internal switch					0 1	N/A 2xSPDT, 0.5A/30VDC

When control signal is 0, feedback should be 0. If control signal is 1, feedback may be 0 or 1. If control signal is 2, feedback may be 0 or 2. If control signal is 8, feedback may be 0 or 8.

External Position Switch (must be ordered separately):

The external position switch can feedback the position status of the actuator. Suitable for field installation, it can replace the function of the internal switch and can adjust the position set point freely.

Model:
SW1A (1xSPDT,0.5A/250VAC); **SW2A** (2xSPDT,0.5A/250VAC)
Work temp.: -30~50°C, 0~95%RH, no cond. (EN60730-1)
Storage temp.: -40~80°C
Power Protection: class II-totally insulated
Enclosure Protection: IP54
Weight: 0.13kg



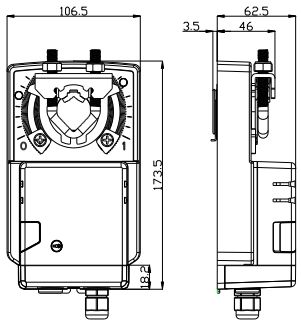
Note 1: The content of this page is a complete catalog of DA20 products. But the subsequent content is the instruction manual of its 24VDC/AC products. 220VAC products have an independent manual.

Note 2: The product's standard torque is 20 Nm, usually is applicable for dampers with size less than 4 m^2. However, due to the differences of materials, structures, installations, and the applied ventilation system's pressure or flow condition, the needed torque may be different.

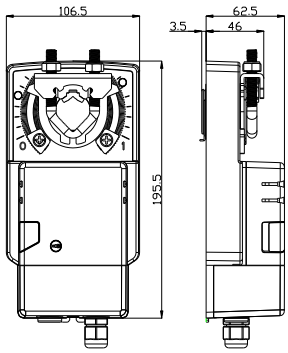
DA40 Damper Actuator, 40Nm Series

24V

220V



24V



220V

Applications & Features

- Special designed for the control of dampers of various HVAC system and equipment
- Easily assemble: connect the damper and actuator, the adapter can self-centered the connection shaft. Can be applied to dampers with different size shaft
- Mechanical limit: can be adjusted within the full stroke
- Mechanical position indication: can adjust the indicator freely
- Manual operation: can be manual operated with the button, convenient for user to manually adjust the actuator when the power is off or the control signal input is absence
- Multi-function selection knob: select control signal, rotate direction and stop/shutdown status, very convenient to set multiple operating modes
- Highly reliable: full stroke overload protection function, no limit switch, self-stop at the end point
- Removable terminal cover design, convenient and easy for installation and wiring
- High service life: using industrial design, stable and reliable operation, long life
- External position switch: the position setpoint can be adjusted freely and installed on site. The wiring direction can be conveniently set to left or right

Specifications

Torque: 40 Nm
Damper size: ≤8 m^2(see details in the manual)
Direction of rotation: set by knob
Position indicator: mechanical
Manual override: set by push button
Angle of rotation: max. 95°
Running time: 150s
Connection shaft: Circular Φ12~26.7mm, square 12~18mm, min. length 50mm

Power:

Power Range	19.2~28.8V AC/DC	85~265V, 50/60Hz
Consumption	Act 8W, Hold 1.5W	Act 8.5W, Hold 1.5W
Protection	class III-low voltage safe	class II-totally insulated

Control Signal: on/off, 3 pos;0~10V(input impedance 250KΩ); 4~20 mA (input impedance 200Ω); RS485/Modbus
Internal feedback: 0(2)~10VDC (max. output 1mA); 4~20mA(max. load 500Ω); RS485/Modbus-RTU
Internal switch: 2×SPDT, 0.5A/30VDC
External position switch: 1 or 2, SPDT, 0.5A/250VAC, must be ordered separately, see External Position Switch
Electrical connection: screw terminal
Mode of operation: Type1 to EN60730-1
Work temp.: -30~50°C, 95%RH, no cond. (EN60730-1)
Storage temp.: -40~80°C
Noise level: ≤45dB
Protection: IP54
Weight: 1.8kg (220V models)
Approval: CE

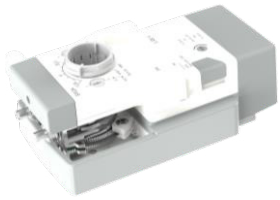
Models

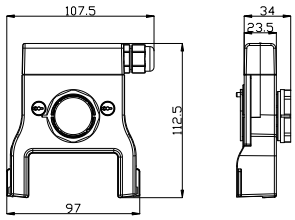
Model	**DA40**					**40Nm Damper Actuator**
Power		0 1				24VAC/DC 85~265VAC
Control signal			0 1 2 8			on/off, 3-pos 0(2)~10VDC 4~20mA RS485/Modbus RTU
Internal feedback				0 1 2 8		N/A 0(2)~10VDC 4~20mA RS485/Modbus RTU
Internal switch					0 1	N/A 2xSPDT, 0.5A/30VDC

When control signal is 0, feedback should be 0. If control signal is 1, feedback may be 0 or 1. If control signal is 2, feedback may be 0 or 2. If control signal is 8, feedback may be 0 or 8.

External Position Switch: (must be ordered separately)**:** The external position switch can feedback the position status of the actuator. Suitable for field installation, it can replace the function of the internal switch and can adjust the position set point freely.

Model: SW1A(1xSPDT,0.5A/250VAC);SW2A(2xSPDT,0.5A/250VAC)
Work temp.: -30~50°C, 0~95%RH, no cond. (EN60730-1)
Storage temp.: -40~80°C
Power Protection: class II-totally insulated
Enclosure Protection: IP54
Weight: 0.13kg





Note 1: The content of this page is a complete catalog of DA40 products. But the subsequent content is the instruction manual of its 220VAC products. 24VDC/AC products have an independent manual.

Note 2: The product's standard torque is 40 Nm, usually is applicable for dampers with size less than 8 m^2. However, due to the differences of materials, structures, installations, and the applied ventilation system's pressure or flow condition, the needed torque may be different.

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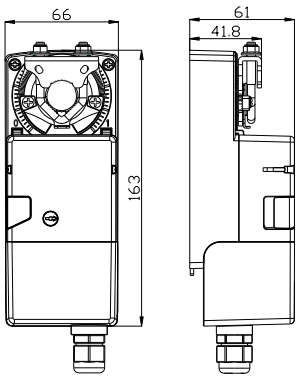
DA05S Fail-safe Damper Actuator, 5Nm Series



Applications & Features

- Special designed for the control of dampers of various HVAC system and equipment
- Easily assemble: connect the damper and actuator, the adapter can self-centered the connection shaft. Can be applied to dampers with different size shaft
- Mechanical limit: can be adjusted within the full stroke
- Mechanical position indication: can adjust the indicator freely
- Manual operation: can be manual operated with the button, convenient to manually adjust the actuator when the power is off, or the control signal input is absent
- Multi-function selection knob: select control signal, rotate direction and stop/shutdown status, very convenient to set multiple operating modes
- In case of external power failure, the actuator can still run to the selected fail-safe position with internal capacitors
- Standard or medium speed optional
- Highly reliable with full stroke overload protection function, can self-stop at the end without limit switch
- Removable terminal cover, easy for installation and wiring
- Industrial design, stable and reliable operation, long life
- External position switch: the position setpoint can be adjusted freely and installed on site. The wiring direction can be conveniently set to left or right

Specifications

Torque: 5 Nm
Damper size: ≤1 m^2(see details in the manual)
Direction of rotation: Set by knob
Position indicator: Mechanical
Manual override: Set by push button
Angle of rotation: Max. 95°
Running time: Standard 120s, medium speed 75s optional
Connected shaft: Circular Φ6~15mm, square 4.5~11mm, min. length 43mm
Driver: Brushless DC motor (BLDC)
Power: 19.2~28.8V AC/DC
Power consumption: Act 1W, Hold 0.5W, Charge 3W
Power protection: Class III-low voltage safe
Control Signal: on/off, 3 pos; 0~10V(input impedance 250kΩ); 4~20 mA (input impedance 200Ω); RS485/Modbus
Internal feedback: 0(2)~10VDC (max. output 1mA); 4~20mA (max. load 500Ω); RS485/Modbus-RTU
Internal switch: 2xSPDT, 0.5A/30VDC
External position switch: 1 or 2, SPDT, 0.5A/250VAC, must be ordered separately, see External Position Switch
Fail-safe position: Zero or Full scale, set by DIP switch
Fail-safe delay time: 2s
Fail-safe running time: <32s
Capacitor charge time: <6min
Capacitor service life: >10 years
Electrical connection: Screw terminal
Service life: 100,000 cycles (full stroke, standard speed)

Mode of operation: Type 1 to EN60730-1

Work temp.: -30~50°C, 95%RH, no cond. (EN60730-1)
Storage temp.: -40~80°C
Noise level: ≤35dB
Protection: IP54
Weight: 0.68kg
Approval: CE

Models

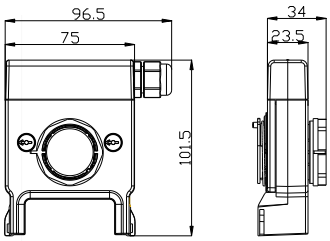
Model	DA05S				Fail-safe Damper Actuator,5Nm
Control signal		0 1 2 8			on/off, 3-pos 0(2)~10VDC 4~20mA RS485/Modbus RTU
Internal feedback			0 1 2 8		N/A 0(2)~10VDC 4~20mA RS485/Modbus RTU
Internal switch				0 1	N/A 2xSPDT, 0.5A/30VDC

1. When control signal is 0, feedback should be 0. If control signal is 1, feedback may be 0 or 1. If control signal is 2, feedback may be 0 or 2. If control signal is 8, feedback may be 0 or 8.
2. If select medium speed 75s, add suffix M to the model.

External Position Switch (must be ordered separately):

The external position switch can feedback the position status of the actuator. Suitable for field installation, can replace the function of the internal switch and can adjust the position set point freely.

Model: SW1(1xSPDT, 0.5A/250VAC); SW2(2xSPDT, 0.5A/250VAC)
Work condition: -30~50°C, 0~95%RH, no cond. (EN60730-1)
Storage temp.: -40~80°C
Power Protection: Class II-totally insulated
Enclosure Protection: IP54
Weight: 0.12kg



Note: The product's standard torque is 5 Nm, usually is applicable for dampers with size less than 1 m^2. However, due to the differences of materials, structures, installations, and the applied ventilation system's pressure or flow condition, the needed torque may be different.

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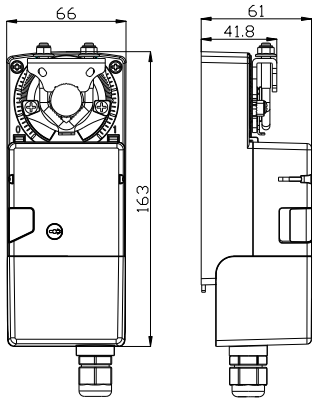
DA10S Fail-safe Damper Actuator, 10Nm Series

A



Applications & Features

- Special designed for the control of dampers of various HVAC system and equipment
- Easily assemble: connect the damper and actuator, the adapter can self-centered the connection shaft. Can be applied to dampers with different size shaft
- Mechanical limit: can be adjusted within the full stroke
- Mechanical position indication: can adjust the indicator freely
- Manual operation: can be manual operated with the button, convenient to manually adjust the actuator when the power is off, or the control signal input is absent
- Multi-function selection knob: select control signal, rotate direction and stop/shutdown status, very convenient to set multiple operating modes
- In case of external power failure, the actuator can still run to the selected fail-safe position with internal capacitors
- Standard or medium speed optional
- Highly reliable with full stroke overload protection function, can self-stop at the end without limit switch
- Removable terminal cover, easy for installation and wiring
- Industrial design, stable and reliable operation, long life
- External position switch: the position setpoint can be adjusted freely and installed on site. The wiring direction can be conveniently set to left or right

Specifications

Torque: 10 Nm
Damper size: ≤2 m^2(see details in the manual)
Direction of rotation: Set by knob
Position indicator: Mechanical
Manual override: Set by push button
Angle of rotation: Max. 95°
Running time: Standard 120s, medium speed 75s optional
Connected shaft: Circular Φ8~17mm, square 5.8~12mm, min. length 43mm
Driver: Brushless DC motor (BLDC)
Power: 19.2~28.8V AC/DC
Power consumption: Act 1.5W, Hold 0.5W, Charge 3W
Power protection: Class III-low voltage safe
Control Signal: on/off, 3 pos; 0~10V(input impedance 250kΩ); 4~20 mA (input impedance 200Ω); RS485/Modbus
Internal feedback: 0(2)~10VDC (max. output 1mA); 4~20mA (max. load 500Ω); RS485/Modbus
Internal switch: 2xSPDT, 0.5A/30VDC
External position switch: 1 or 2, SPDT, 0.5A/250VAC, must be ordered separately, see External Position Switch
Fail-safe position: Zero or Full scale, set by DIP switch
Fail-safe delay time: 2s
Fail-safe running time: <32s
Capacitor charge time: <6min
Capacitor service life: >10 years
Electrical connection: Screw terminal
Service life: 100,000 cycles (full stroke, standard speed)
Mode of operation: Type 1 to E
Work temp.: -30~50°C, 95%RH, no cond. (EN60730-1)
Storage temp.: -40~80°C
Noise level: ≤40dB
Protection: IP54
Weight: 0.75kg
Approval: CE

Models

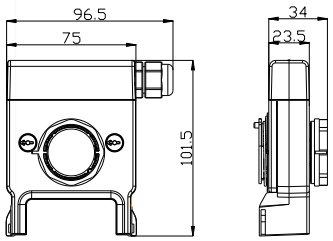
Model	DA10S				Fail-safe Damper Actuator,10Nm
Control signal		0			on/off, 3-pos
		1			0(2)~10VDC
		2			4~20mA
		8			RS485/Modbus RTU
Internal feedback			0		N/A
			1		0(2)~10VDC
			2		4~20mA
			8		RS485/Modbus RTU
Internal switch				0	N/A
				1	2xSPDT, 0.5A/30VDC

1. When control signal is 0, feedback should be 0. If control signal is 1, feedback may be 0 or 1. If control signal is 2, feedback may be 0 or 2. If control signal is 8, feedback may be 0 or 8.
2. If select medium speed 75s, add suffix M to the model.

External Position Switch (must be ordered separately):

The external position switch can feedback the position status of the actuator. Suitable for field installation, it can replace the function of the internal switch and can adjust the position set point freely.

Model: SW1(1xSPDT, 0.5A/250VAC); SW2(2xSPDT, 0.5A/250VAC)
Work temp.: -30~50°C, 0~95%RH, no cond. (EN60730-1)
Storage temp.: -40~80°C
Power Protection: Class II-totally insulated
Enclosure Protection: IP54
Weight: 0.12kg



Note: The product's standard torque is 10 Nm, usually is applicable for dampers with size less than 2 m^2. However, due to the differences of materials, structures, installations, and the applied ventilation system's pressure or flow condition, the needed torque may be different.

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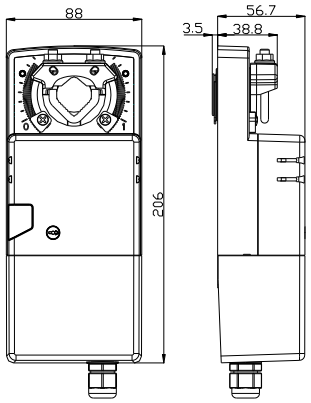
DA20S Fail-safe Damper Actuator, 20Nm Series



Applications & Features

- Special designed for the control of dampers of various HVAC system and equipment
- Easily assemble: connect the damper and actuator, the adapter can self-centered the connection shaft. Can be applied to dampers with different size shaft
- Mechanical limit: can be adjusted within the full stroke
- Mechanical position indication:can adjust the indicator freely
- Manual operation: can be manual operated with the button, convenient to manually adjust the actuator when the power is off, or the control signal input is absent
- Multi-function selection knob: select control signal, rotate direction and stop/shutdown status, very convenient to set multiple operating modes
- In case of external power failure, the actuator can still run to the selected fail-safe position with internal capacitors
- Standard or medium speed optional
- Highly reliable with full stroke overload protection function, can self-stop at the end without limit switch
- Removable terminal cover, easy for installation and wiring
- Industrial design, stable and reliable operation, long life
- External position switch: the position setpoint can be adjusted freely and installed on site. The wiring direction can be conveniently set to left or right

Specifications

Torque: 20 Nm
Damper size: ≤4 m^2(see details in the manual)
Direction of rotation: Set by knob
Position indicator: Mechanical
Manual override: Set by push button
Angle of rotation: Max. 95°
Running time: Standard 150s, medium speed 90s optional
Connected shaft: Circular Φ10~20mm, square 8~14mm, min. length 43mm
Driver: Brushless DC motor (BLDC)
Power: 19.2~28.8V AC/DC
Power consumption: Act 3.5W, Hold 0.8W, Charge 4W
Power protection: Class III-low voltage safe
Control Signal: on/off, 3 pos; 0~10V(input impedance 250kΩ); 4~20 mA (input impedance 200Ω); RS485/Modbus
Internal feedback: 0(2)~10VDC (max. output 1mA); 4~20mA (max. load 500Ω); RS485/Modbus-RTU
Internal switch: 2xSPDT, 0.5A/30VDC
External position switch: 1 or 2, SPDT, 0.5A/250VAC, must be ordered separately, see External Position Switch
Fail-safe position: Zero or Full scale, set by DIP switch
Fail-safe delay time: 2s
Fail-safe running time: <36s (-20~50°C)
Capacitor charge time: <15min
Capacitor service life: >10 years
Electrical connection: Screw terminal
Service life: 100,000 cycles (full stroke, standard speed)
Mode of operation: Type1 to EN60730-1
Work temp.: -30~50°C, 95%RH, no cond. (EN60730-1)
Storage temp.: -40~80°C
Noise level: ≤40dB
Protection: IP54
Weight: 1.3kg
Approval: CE

Models

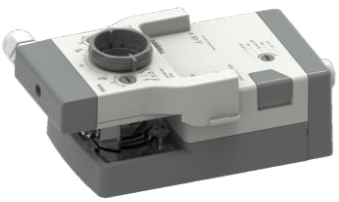
Model	DA20S				Fail-safe Damper Actuator,20Nm
Control signal		0			on/off, 3-pos
		1			0(2)~10VDC
		2			4~20mA
		8			RS485/Modbus RTU
Internal feedback			0		N/A
			1		0(2)~10VDC
			2		4~20mA
			8		RS485/Modbus RTU
Internal switch				0	N/A
				1	2xSPDT, 0.5A/30VDC

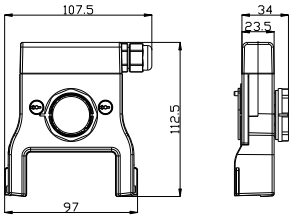
1. When control signal is 0, feedback should be 0. If control signal is 1, feedback may be 0 or 1. If control signal is 2, feedback may be 0 or 2. If control signal is 8, feedback may be 0 or 8.
2. If select medium speed 90s, add suffix M to the model.

External Position Switch (must be ordered separately):

The external position switch can feedback the position status of the actuator. Suitable for field installation, it can replace the function of the internal switch and can adjust the position set point freely.

Model:
SW1A (1xSPDT,0.5A/250VAC); **SW2A** (2xSPDT,0.5A/250VAC)
Work temp.: -30~50°C, 0~95%RH, no cond. (EN60730-1)
Storage temp.: -40~80°C
Power Protection: Class II-totally insulated
Enclosure Protection: IP54
Weight: 0.13kg





Note: The product's standard torque is 20 Nm, usually is applicable for dampers with size less than 4 m^2. However, due to the differences of materials, structures, installations, and the applied ventilation system's pressure or flow condition, the needed torque may be different.

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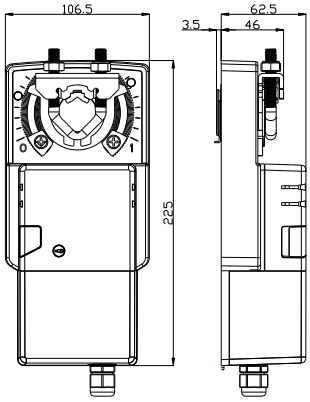
DA40S Fail-safe Damper Actuator, 40Nm Series



Applications & Features

- Special designed for the control of dampers of various HVAC system and equipment
- Easily assemble: connect the damper and actuator, the adapter can self-centered the connection shaft. Can be applied to dampers with different size shaft
- Mechanical limit: can be adjusted within the full stroke
- Mechanical position indication:can adjust the indicator freely
- Manual operation: can be manual operated with the button, convenient to manually adjust the actuator when the power is off, or the control signal input is absent
- Multi-function selection knob: select control signal, rotate direction and stop/shutdown status, very convenient to set multiple operating modes
- In case of external power failure, the actuator can still run to the selected fail-safe position with internal capacitors
- Standard or medium speed optional
- Highly reliable with full stroke overload protection function, can self-stop at the end without limit switch
- Removable terminal cover, easy for installation and wiring
- Industrial design, stable and reliable operation, long life
- External position switch: the position setpoint can be adjusted freely and installed on site. The wiring direction can be conveniently set to left or right

Specifications

Torque: 40 Nm
Damper size: ≤8 m^2(see details in the manual)
Direction of rotation: Set by knob
Position indicator: Mechanical
Manual override: Set by push button
Angle of rotation: Max. 95°
Running time: Standard 150s, medium speed 75s optional
Connected shaft: Circular Φ12~26.7mm, square 12~18mm, min. length 50mm
Driver: Brushless DC motor (BLDC)
Power: 19.2~28.8V AC/DC
Power consumption: Act 8.5W, Hold 1.5W, Charge 4W
Power protection: Class III-low voltage safe
Control Signal: on/off, 3 pos;0~10V(input impedance 250KΩ); 4~20 mA (input impedance 200Ω); RS485/Modbus
Internal feedback: 0(2)~10VDC (max. output 1mA); 4~20mA(max. load 500Ω); RS485/Modbus-RTU
Internal switch: 2xSPDT, 0.5A/30VDC
External position switch: 1 or 2, SPDT, 0.5A/250VAC, must be ordered separately, see External Position Switch
Fail-safe position: Zero or Full scale, set by DIP switch
Fail-safe delay time: 2s
Fail-safe running time: <45s
Capacitor charge time: <15min
Capacitor service life: >10 years
Electrical connection: Screw terminal
Service life: 100,000 cycles (full stroke, standard speed)
Mode of operation: Type1 to EN60730-1
Work temp.: -30~50°C, 95%RH, no cond. (EN60730-1)
Storage temp.: -40~80°C
Noise level: ≤45dB
Protection: IP54
Protection: IP54
Weight: 1.9kg
Approval: CE

Models

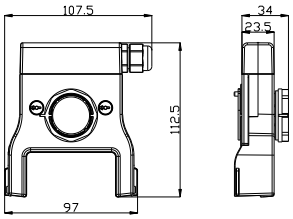
Model	DA40S				Fail-safe Damper Actuator,40Nm
Control signal		0			on/off, 3-pos
		1			0(2)~10VDC
		2			4~20mA
		8			RS485/Modbus RTU
Internal feedback			0		N/A
			1		0(2)~10VDC
			2		4~20mA
			8		RS485/Modbus RTU
Internal switch				0	N/A
				1	2xSPDT, 0.5A/30VDC

1. When control signal is 0, feedback should be 0. If control signal is 1, feedback may be 0 or 1. If control signal is 2, feedback may be 0 or 2. If control signal is 8, feedback may be 0 or 8.
2. If select medium speed 90s, add suffix M to the model.

External Position Switch: (must be ordered separately):

The external position switch can feedback the position status of the actuator. Suitable for field installation, it can replace the function of the internal switch and can adjust the position set point freely.

Model:SW1A(1xSPDT,0.5A/250VAC);SW2A(2xSPDT,0.5A/250VAC)
Work temp.: -30~50°C, 0~95%RH, no cond. (EN60730-1)
Storage temp.: -40~80°C
Power Protection: Class II-totally insulated
Enclosure Protection: IP54
Weight: 0.13kg



Note: The product's standard torque is 40 Nm, usually is applicable for dampers with size less than 8 m^2. However, due to the differences of materials, structures, installations, and the applied ventilation system's pressure or flow condition, the needed torque may be different.

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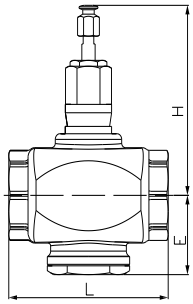
GVS Globe Valve, Two-way



Dimension/Weight

Model	Dimension(mm)			Screw	Weight kg
	L	H	E		
GVS2015	84	118.5	37.5	G1/2	0.88
GVS2020	84	118.5	37.5	G3/4	0.88
GVS2025	104	124	48	G1	1.27
GVS2032	110	127	50	G1-1/4	1.45
GVS2040	120	129.5	54	G1-1/2	1.93
GVS2050	130	134	57.5	G2	2.61

Applications & Features

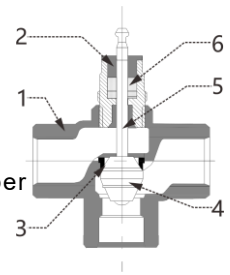
- Two-way globe valve, screw connection, can be applied in the flow control of hot, cold water in various HVAC systems or equipment, such as AHU, coil, etc.
- Can work with Fluxera's globe valve actuator GVA series or other applicable actuators. It can be installed with actuators easily without any accessories
- equal percentage flow characteristics
- Valve stem can be positioned accurately, ensures the precise flow control
- Direct big flow rate, small flow resistance
- Compact and simple structure, easy to install in small installation space
- Special design for small force but big closing pressure
- Low leakage rate, open/close softly, can prevent water hammer

Specifications

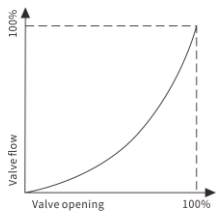
Size: DN15~50
Pressure: PN16
Medium: Cool, hot water, 50% or lower glycol water
Medium temperature: -10~95°C
Flow characteristics: Equal percentage
Leakage rate: ≤0.05%; no leak on stem
Valve type: Two-way
Regulating ratio: >100: 1
Stroke: 10~20mm, see Models
Pipe connection: Screw, comply with ISO7-1 Rp
Action direction: Close when stem goes up
Install direction: Valve stem upward or horizontal

Structure & Materials

1. Valve body: Brass
2. Valve deck: Brass
3. Valve seat: RPTFE
4. Valve core: Nickel-plated copper
5. Valve stem: SS
6. Valve ring: PTFE, EPDM



Flow Characteristics



A-AB Equal percentage

Formula for Flow Rate & Diff. Pressur e

$$Kvs = \frac{F}{\sqrt{\frac{\Delta P}{100}}}$$

ΔP: Differential pressure when valve is 100% open, unit kPa
F: Flow rate when differential pressure is ΔP, unit m^3/h
Kvs: When valve is 100% open, differential pressure is 100kpa, medium density is $1g/cm^3$, the flow through the valve, unit m^3/h

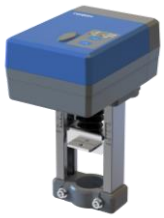
Models and Closing Diff. Pressure

Model	DN		Kvs	Stroke	Closing Diff. Pressure(kPa)			
					600N		1000N	
	mm	in	m^3/h	mm	ΔPs	ΔPm	ΔPs	ΔPm
GVS2015	15	1/2	4.3	15	1600	800		
GVS2020	20	3/4	6.2	15	1600	800		
GVS2025	25	1	9.7	20	1600	800		
GVS2032	32	1-1/4	14.8	20	1250	700		
GVS2040	40	1-1/2	20	20	850	500	1600	800
GVS2050	50	2	45	20	550	350	1250	600

ΔPs: (under the actuator force), the max. permitted diff. pressure for ensuring the valve is 100% close.
ΔPm: (under the actuator force), in the stroke, the max. permitted diff. pressure for ensuring the valve is in normal working condition.

Applied Actuators

GVA06/GVA10
600N/1000N(20mm)



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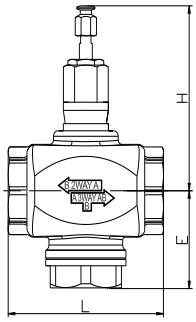
GVS Globe Valve, Three-way



Dimension/Weight

Model	Dimension(mm)			Screw	Weight kg
	L	H	E		
GVS3015	84	118.5	48.5	G1/2	0.93
GVS3020	84	118.5	48.5	G3/4	0.93
GVS3025	104	124	59	G1	1.416
GVS3032	110	127	63	G1-1/4	1.68
GVS3040	120	129.5	67	G1-1/2	2.05
GVS3050	130	134	72.5	G2	2.9

Applications & Features

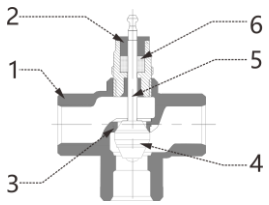
- Three-way globe valve, screw connection, can be applied in the flow control of hot, cold water in various HVAC systems or equipment, such as AHU, coil, etc.
- Can work with Fluxera's globe valve actuator GVA series or other applicable actuators. It can be installed with actuators easily without any accessories
- equal percentage flow characteristics
- Valve stem can be positioned accurately, ensures the precise flow control
- Direct big flow rate, small flow resistance
- Compact and simple structure, easy to install in small installation space
- Special design for small force but big closing pressure
- Low leakage rate, open/close softly, can prevent water hammer

Specifications

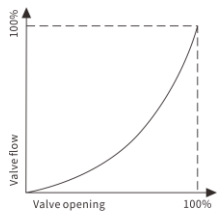
Size: DN15~50
Pressure: PN16
Medium: Cool, hot water, 50% or lower glycol water
Medium temperature: -10~95°C
Flow characteristics: A-AB: Equal percentage; B-AB: Linear
Leakage rate: A-AB≤0.05%; B-AB: 1%~2% Kvs;
no leak on stem
Valve type: Three-way
Regulating ratio: >100: 1
Stroke: 10~20mm, see Models
Pipe connection: Screw, comply with ISO7-1 Rp
Action direction: A-AB Close when stem goes up
Install direction: Valve stem upward or horizontal

Structure & Materials

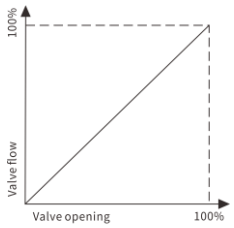
1. Valve body: Brass
2. Valve deck: Brass
3. Valve seat: RPTFE
4. Valve core: Nickel-plated copper
5. Valve stem: SS
6. Valve ring: PTFE, EPDM



Flow Characteristics



A-AB Equal percentage



B-AB Linear

Formula for Flow Rate & Diff. Pressure

$$Kvs = \frac{F}{\sqrt{\frac{\Delta P}{100}}}$$

ΔP: Differential pressure when valve is 100% open, unit kPa
F: Flow rate when differential pressure is ΔP, unit m^3/h
Kvs: When valve is 100% open, differential pressure is 100kpa, medium density is $1g/cm^3$, the flow through the valve, unit m^3/h

Models and Closing Diff. Pressure

Model	DN		Kvs	Stroke	Closing Diff. Pressure(kPa)			
	mm	in	m^3/h	mm	600N		1000N	
					ΔPs	ΔPm	ΔPs	ΔPm
GVS3015	15	1/2	3.1	20		800		
GVS3020	20	3/4	5	20		800		
GVS3025	25	1	7.4	20		800		
GVS3032	32	1-1/4	11.5	20		700		
GVS3040	40	1-1/2	15.2	20		500		800
GVS3050	50	2	44	20		350		600

ΔPs: (under the actuator force), the max. permitted diff. pressure for ensuring the valve is 100% close.
ΔPm: (under the actuator force), in the stroke, the max. permitted diff. pressure for ensuring the valve is in normal working condition.

Applied Actuators

GVA06/GVA10
600N/1000N(20mm)

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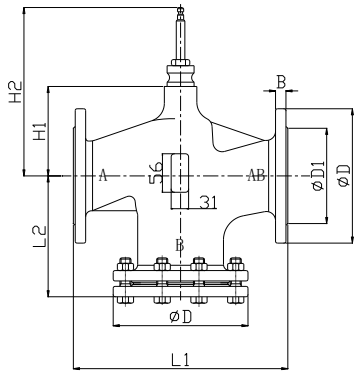
GVF Globe Valve, Two-way



Dimension/Weight

Model	Dimension(mm)				Weight kg
	L1	L2	H1	H2 A-AB Close	
GVF2015	130	87	63	159	4.2
GVF2020	150	99	63	159	5.4
GVF2025	160	104	63	159	6.1
GVF2032	180	119	60	156	8.8
GVF2040	200	129	60	156	10.2
GVF2050	230	146	100	196	12.7
GVF2065	290	178	115	231	21.8
GVF2080	310	190	115	231	28.1
GVF2100	350	206	146	262	38
GVF2125	400	233	159	275	51.9
GVF2150	480	275	186	303	74.1
GVF2200	495	200	243	360	120
GVF2250	622	240	275	391	160

Applications & Features

- Two-way globe valve, flange connection, can be applied in the flow control of hot, cold water in various HVAC systems or equipment, such as AHU, coil, etc.
- Can work with Fluxera's globe valve actuator GVA series or other applicable actuators. It can be installed with actuators easily without any accessories
- Standard flange complies with ISO7005 and HG20592
- Lengthened stem gives better heat release
- Balanced valve core can compensate for pressure, assembled piston sealing structure makes the valve work very stable even under high differential pressure
- equal percentage flow characteristics
- Valve stem can be positioned accurately, ensures the precise flow control
- Direct big flow rate, small flow resistance, no slag blocking
- Multiple sealing, very low leakage rate

Formula for Flow Rate & Diff. Pressure

$$Kvs = \frac{F}{\sqrt{\frac{\Delta P}{100}}}$$

ΔP: Differential pressure when valve is 100% open, unit kPa
F: Flow rate when differential pressure is ΔP, unit m^3/h
Kvs: When valve is 100% open, differential pressure is 100kpa, medium density is $1g/cm^3$, the flow through the valve, unit m^3/h

Specifications

Size: DN15~250
Pressure: PN16
Medium: Cool, hot water, 50% or lower glycol water
Medium temperature: -10~120°C
Valve type: Two-way
Strike: 10~40mm, see Models
Flow characteristics: Equal percentage
Regulating ratio: DN15~50：50: 1; DN65~250: 100: 1
Leakage rate: ≤0.01% Kvs (DN15~DN150);
≤0.02% Kvs (DN200~DN250); no leak on stem
Pipe connection: Flange, comply with ISO7005, HG20592
Action direction: Close when stem goes up
Install direction: Valve stem upward or horizontal

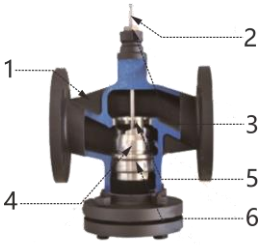
Models and Closing Diff. Pressure

Mode	DN		Kvs	Strike	Closing Diff. Pressure(kPa)			
	mm	in	m³/h	mm	600N		1000N	
					ΔPs	ΔPm	ΔPs	ΔPm
GVF2015	15	1/2	4	10	1600	1600		
GVF2020	20	3/4	6.3	10	1600	1600		
GVF2025	25	1	10	15	1600	1200		
GVF2032	32	1-1/4	16	20	1600	1200		
GVF2040	40	1-1/2	25	20	1600	1000		
GVF2050	50	2	40	20	1600	1000		
GVF2065	65	2-1/2	63	20	1600	600	1600	1000
GVF2080	80	3	100	20	1600	400	1600	800
					2000N		3500N	
					ΔPs	ΔPm	ΔPs	ΔPm
GVF2100	100	4	150	40	1600	1000		
GVF2125	125	5	220	40	1600	1000		
GVF2150	150	6	315	40	1600	800		
GVF2200	200	8	450	40			1600	800
GVF2250	250	10	630	40			1600	800

ΔPs: (under the actuator force), the max. permitted diff. pressure for ensuring the valve is 100% close.
ΔPm: (under the actuator force), in the strike, the max. permitted diff. pressure for ensuring the valve is in normal working condition.

Structure & Materials

1. Valve body: Nodular cast iron
2. Valve stem: 2Cr13 SS
3. Valve box: 304 SS
4. Valve core: 304 SS
5. Valve ring: 304 SS
6. Balancing cylinder: 304 SS



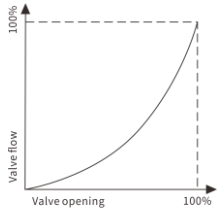
Applied Actuators

GVA06/GVA10
600N/1000N(20mm)

GVA20
2000N(20/40mm)

GVA35
3500N(40mm)

Flow Characteristics



A-AB Equal percentage

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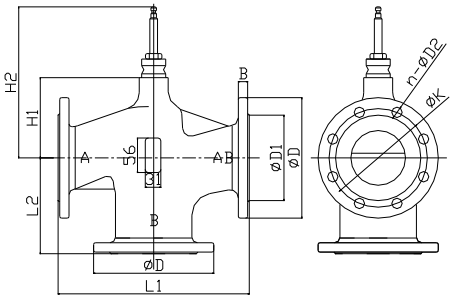
GVF Globe Valve, Three way



Dimension/Weight

Model	Dimension(mm)				Weight kg
	L1	L2	H1	H2 A-AB Close	
GVF3015	130	65	63	159	4.1
GVF3020	150	75	63	159	5.3
GVF3025	160	80	63	159	6.0
GVF3032	180	90	60	156	8.6
GVF3040	200	100	60	156	10.0
GVF3050	230	115	100	196	12.5
GVF3065	290	145	115	231	21.5
GVF3080	310	155	115	231	27.8
GVF3100	350	166	146	262	37.6
GVF3125	400	200	159	275	51.5
GVF3150	480	240	186	303	73.6
GVF2200	495	165	243	360	119
GVF3250	622	203	275	391	159

Applications & Features

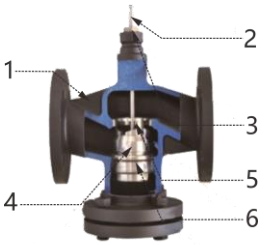
- Three-way globe valve, flange connection, can be applied in the flow control of hot, cold water in various HVAC systems or equipment, such as AHU, coil, etc.
- Can work with Fluxera globe valve actuator GVA series or other applicable actuators. It can be installed with actuators easily without any accessories
- Standard flange complies with ISO7005 and HG20592
- Lengthened stem gives better heat release
- Balanced valve core can compensate for pressure, assembled piston sealing structure makes the valve work very stable even under high differential pressure
- equal percentage flow characteristics
- Valve stem can be positioned accurately, ensures the precise flow control
- Direct big flow rate, small flow resistance, no slag blocking
- Multiple sealing, very low leakage rate

Specifications

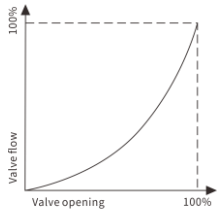
Size: DN15~250
Pressure: PN16
Medium: Cool, hot water, 50% or lower glycol water
Medium temperature: -10~120°C
Valve type: Three-way
Strike: 10~40mm, see Models
Flow characteristics: A-AB: equal percentage; B-AB: linear
Regulating ratio: DN15~50: 50: 1; DN65~250: 100: 1
Leakage rate: A-AB: ≤0.01% Kvs (DN15~DN150), ≤0.02% Kvs(DN200~DN250); B-AB: 0.5%~2%Kvs; no leak on stem
Pipe connection: Flange, comply with ISO7005, HG20592
Action direction: A-AB close when stem goes up
Install direction: Valve stem upward or horizontal

Structure & Materials

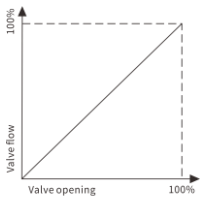
1. Valve body: Nodular cast iron
2. Valve stem: 2Cr13 SS
3. Valve box: 304 SS
4. Valve core: 304 SS
5. Valve ring: 304 SS
6. Balancing cylinder: 304 SS



Flow Characteristics



A-AB Equal percentage



B-AB Linear

Formula for Flow Rate & Diff. Pressure

$$Kvs = \frac{F}{\sqrt{\frac{\Delta P}{100}}}$$

ΔP: Differential pressure when valve is 100% open, unit kPa
F: Flow rate when differential pressure is ΔP, unit m^3/h
Kvs: When valve is 100% open, differential pressure is 100kpa, medium density is $1g/cm^3$, the flow through the valve, unit m^3/h

Models and Closing Diff. Pressure

Model	DN		Kvs	Strike	Closing Diff. Pressure (ΔPm, kPa)			
	mm	in	m³/h	mm	600N		1000N	
					Mix	Split	Mix	Split
GVF3015	15	1/2	4	10	400	100		
GVF3020	20	3/4	6.3	10	300	75		
GVF3025	25	1	10	15	300	75		
GVF3032	32	1-1/4	16	20	300	75		
GVF3040	40	1-1/2	25	20	300	75	400	100
GVF3050	50	2	40	20	200	75	400	100
GVF3065	65	2-1/2	63	20			300	100
GVF3080	80	3	100	20			200	75
					2000N		3500N	
					Mix	Split	Mix	Split
GVF3100	100	4	150	40	300	100		
GVF3125	125	5	220	40	200	75		
GVF3150	150	6	315	40	200	50		
GVF3200	200	8	450	40			150	50
GVF3250	250	10	630	40			75	40

ΔPs: (under the actuator force), the max. permitted diff. pressure for ensuring the valve is 100% close.
ΔPm: (under the actuator force), in the strike, the max. permitted diff. pressure for ensuring the valve is in normal working condition.

Applied Actuators

GVA06/GVA10
600N/1000N(20mm)

GVA20
2000N(20/40mm)

GVA35
3500N(40mm)

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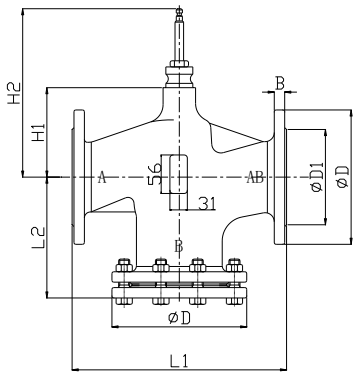
GVFH Globe Valve, Two-way High Temperature



Dimension/Weight

Model	Dimension(mm)				Weight kg
	L1	L2	H1	H2 A-AB Close	
GVFH2015	130	87	63	159	4.2
GVFH2020	150	99	63	159	5.4
GVFH2025	160	104	63	159	6.1
GVFH2032	180	119	60	156	8.8
GVFH2040	200	129	60	156	10.2
GVFH2050	230	146	100	196	12.7
GVFH2065	290	178	115	231	21.8
GVFH2080	310	190	115	231	28.1
GVFH2100	350	206	146	262	38
GVFH2125	400	233	159	275	51.9
GVFH2150	480	275	186	303	74.1

Applications & Features

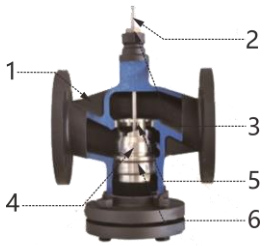
- Two-way globe valve, flange connection, high temperature, can be applied in the flow control of hot water or steam in various HVAC systems or equipment, such as AHU, coil, etc.
- Can work with Fluxera globe valve actuator GVA series or other applicable actuators. It can be installed with actuators easily without any accessories. If applied in steam applications, it's better to select the actuators with fail-safe function
- Standard flange complies with ISO7005 and HG20592
- Lengthened stem gives better heat release
- Balanced valve core can compensate for pressure, assembled piston sealing structure makes the valve work very stable even under high differential pressure
- equal percentage flow characteristics
- Valve stem can be positioned accurately, ensures the precise flow control
- Direct big flow rate, small flow resistance, no slag blocking
- Multiple sealing, very low leakage rate

Specifications

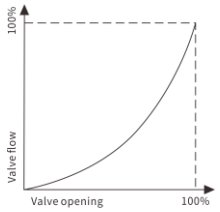
Size: DN15~150
Pressure: PN16
Medium: Hot water or steam
Medium temperature: 0~200°C
Valve type: Two-way
Strike: 10~40mm, see Models
Flow characteristics: Equal percentage
Regulating ratio: DN15~50: 50: 1; DN65~150: 100: 1
Leakage rate: ≤0.01% Kvs; no leak on stem
Pipe connection: Flange, comply with ISO7005, HG20592
Action direction: Close when stem goes up
Install direction: Valve stem upward or horizontal

Structure & Materials

1. Valve body: Nodular cast iron
2. Valve stem: 2Cr13 SS
3. Valve box: 304 SS
4. Valve core: 304 SS
5. Valve ring: 304 SS
6. Balancing cylinder: 304 SS



Flow Characteristics



A-AB Equal percentage

Formula for Flow Rate & Diff. Pressure

$$Kvs = \frac{F}{\sqrt{\frac{\Delta P}{100}}}$$

ΔP: Differential pressure when valve is 100% open, unit kPa
F: Flow rate when differential pressure is ΔP, unit m^3/h
Kvs: When valve is 100% open, differential pressure is 100kpa, medium density is $1g/cm^3$, the flow through the valve, unit m^3/h

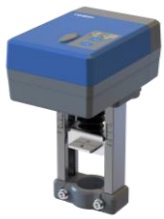
Models and Closing Diff. Pressure

Model	DN		Kvs	Strike	Closing Diff. Pressure(kPa)			
	mm	in	m³/h	mm	600N		1000N	
					ΔPs	ΔPm	ΔPs	ΔPm
GVFH2015	15	1/2	4	10	1600	800		
GVFH2020	20	3/4	6.3	10	1600	800		
GVFH2025	25	1	10	15	1600	600		
GVFH2032	32	1-1/4	16	20	1600	400	1600	1200
GVFH2040	40	1-1/2	25	20			1600	1000
GVFH2050	50	2	40	20			1600	800
GVFH2065	65	2-1/2	63	20			1600	800
GVFH2080	80	3	100	20			1600	600
					2000N		3500N	
					ΔPs	ΔPm	ΔPs	ΔPm
GVFH2100	100	4	150	40	1600	800		
GVFH2125	125	5	220	40	1600	800		
GVFH2150	150	6	315	40	1600	600		

ΔPs: (under the actuator force), the max. permitted diff. pressure for ensuring the valve is 100% close.
ΔPm: (under the actuator force), in the strike, the max. permitted diff. pressure for ensuring the valve is in normal working condition.

Applied Actuators

GVA06/GVA10
600N/1000N(20mm)



GVA20
2000N(20/40mm)

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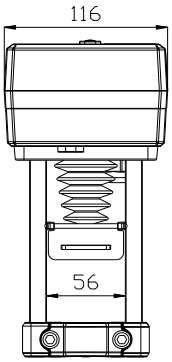
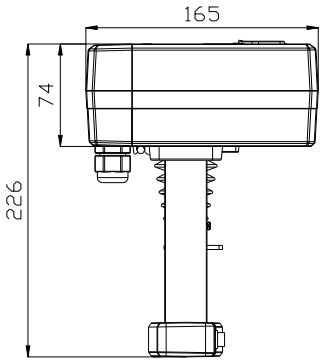
GVA06 Globe Valve Actuator, 600N Series





Applications & Features

- Special designed for the control of globe valves in various HVAC system and equipment. Can apply with Fluxera GVS/ GVF (for water) or GVSH/GVFH(for steam) globe valves or other brands' matchable globe valves
- Easily assemble: connect the actuator and valve, the adapter can self-centered the valve stem and can turn 360° on the neck of the valve
- Mechanical position indication and limit: can be adjusted within the full stroke
- Self-adaptive within max. 25mm stroke, with full stroke overload protection function
- Can be local controlled through the two buttons on top cover, for controlling any position of the valve
- Manual operation: can be mechanically manual operated, when the power is off or the control signal input is absence, for modulating, repairing or maintenance
- Fail position can be set by DIP switch, for the valve to stop at safe position when signal input is absence (Hold/0/50/100%)
- Three colors LED can display various status of the actuator
- DIP switches can set direction, speed, etc.
- Fail-safe function optional. When external power is failed, the actuator can still operate to the full open or close position which can be set by DIP switch.
- Multiple power, control and feedback signals can be selected
- Industrial design, stable and reliable operation, long life

Specifications

Force: 600N
Stroke: 20mm, self-adaptive range 10~25mm
Medium and temp.: Water or steam, -10~200°C
Working temp.: -20~50°C, 0~95%RH, no cond.(EN60730-1)
Storage temp.: -40~80°C
Direction of operation: DIP switchable
Position indicator: Mechanical
Manual operation: By two push buttons
Running time: Standard 60s(3s/mm) or medium speed 40s(2s/mm), DIP switchable
Power supply:

Power range	19.2~28.8V AC/DC	85~265V, 50/60Hz
Consumption	Act 10VA, Hold 1.5VA	Act 11VA, Hold1.5VA
Protection	class III-low voltage safe	class II-totally insulated

Control Signal: on/off, 3 pos; 0(2)~10V(input impedance 100kΩ)/(0)4~20mA(input impedance 200Ω); RS485/Modbus
Internal feedback: 0(2)~10V (max. output 1mA); 4~20mA (max. load 500Ω); RS485/Modbus RTU
Internal switch: 2xSPDT，0.5A/30VDC
Service life: 100,000 cycles (full stroke, standard speed)
Fail-safe position: Zero or Full scale, set by DIP switch
Fail-safe delay time: <1s
Fail-safe running time: <26s
Capacitor charge time: <6min
Capacitor service life: >10 years
Electrical connection: PG11, screw terminal
Mode of operation: Type 1 to EN60730-1
Noise: ≤45dB
Protection: IP65
Material: Top and terminal cover: fire retardant PC(UL94V-0); box: fire retardant PBT(UL94V-0); holder: aluminum alloy; base: die-casting aluminum; clip: SS
Weight: 1.8kg (24V basic model)
Approval: CE

Models

Model	GVA06					Globe valve actuator, 600N
Stroke		0				20mm
Power			0			24V AC/DC
			1			85~265V AC
Control Signal				1		ON/OFF, 3-Pos
				2		0(2)~10V/(0)4~20mA
				8		RS485/Modbus RTU
Feedback Signal					0	N/A
					1	2xSPDT
					2	0(2)~10V/(0)4~20mA
					8	RS485/Modbus RTU

1. When control signal is 1, feedback may be 0 or 1; If control signal is 2, feedback may be 0 or 2. Meanwhile, the control signal will be the same as the feedback signal (whether it is current or voltage type, depends on the DIP set). If control signal is 8, feedback may be 0 or 8.
2. If select fail-safe function, add suffix S to the model

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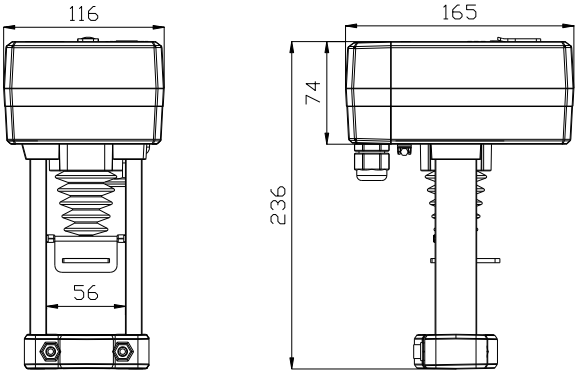
GVA10 Globe Valve Actuator, 1000N Series



Applications & Features

- Special designed for the control of globe valves in various HVAC system and equipment. Can apply with Fluxera's GVS/GVF (for water) or GVFH (for steam) globe valves or other brands' matchable globe valves
- Easily assemble: connect the actuator and valve, the adapter can self-centered the valve stem and can turn 360° on the neck of the valve
- Mechanical position indication and limit: can be adjusted within the full stroke
- Self-adaptive within max. 25mm stroke, with full stroke overload protection function
- Can be local controlled through the two buttons on top cover, for controlling any position of the valve
- Manual operation: can be mechanically manual operated, when the power is off or the control signal input is absence, for modulating, repairing or maintenance
- Fail position can be set by DIP switch, for the valve to stop at safe position when signal input is absence (Hold/0/50/100%)
- Three colors LED can display various status of the actuator
- DIP switches can set direction, speed, etc.
- Fail-safe function optional. When external power is failed, the actuator can still operate to the full open or close position which can be set by DIP switch.
- Multiple power, control and feedback signals can be selected
- Industrial design, stable and reliable operation, long life

Specifications

Force: 1000N
Stroke: 20mm, self-adaptive range 15~25mm
Medium and temp.: Water or steam, -10~200°C
Working temp.: -20~50°C, 0~95%RH, no cond. (EN60730-1)
Storage temp.: -40~80°C
Direction of operation: DIP switchable
Position indicator: Mechanical
Manual operation: By two push buttons
Running time: Standard 60s(3s/mm) or medium speed 40s(2s/mm), DIP switchable
Power supply:

Power range	19.2~28.8V AC/DC	85~265V, 50/60Hz
Consumption	Act 15VA, Hold 2VA	Act 18VA, Hold 2VA
Protection	class III-low voltage safe	class II-totally insulated

Control Signal: on/off, 3 pos; 0(2)~10V(input impedance 100kΩ)/(0)4~20mA(input impedance 200Ω); RS485/Modbus
Internal feedback: 0(2)~10V (max. output 1mA); 4~20mA (max. load 500Ω); RS485/Modbus RTU
Internal switch: 2xSPDT, 0.5A/30VDC
Service life: 100,000 cycles (full stroke, standard speed)
Fail-safe position: Zero or Full scale, set by DIP switch
Fail-safe delay time: 2s
Fail-safe running time: <26s
Capacitor charge time: <6min
Capacitor service life: >10 years
Electrical connection: PG11, screw terminal
Mode of operation: Type 1 to EN60730-1
Noise: ≤45dB
Protection: IP65
Material: Top and terminal cover: fire retardant PC(UL94V-0); box: fire retardant PBT(UL94V-0); holder: aluminum alloy; base: die-casting aluminum; clip: SS
Weight: 2.1kg (24V basic model)
Approval: CE

Models

Model	GVA10					Globe valve actuator, 1000N
Stroke		0				20mm
Power			0			24V AC/DC
			1			85~265V AC
Control Signal				1		ON/OFF, 3-Pos
				2		0(2)~10V/(0)4~20mA
				8		RS485/Modbus RTU
Feedback Signal					0	N/A
					1	2xSPDT
					2	0(2)~10V/(0)4~20mA
					8	RS485/Modbus RTU

1. When control signal is 1, feedback may be 0 or 1; If control signal is 2, feedback may be 0 or 2. Meanwhile, the control signal will be the same as the feedback signal (whether it is current or voltage type, depends on the DIP set). If control signal is 8, feedback may be 0 or 8.
2. If select fail-safe function, add suffix S to the model

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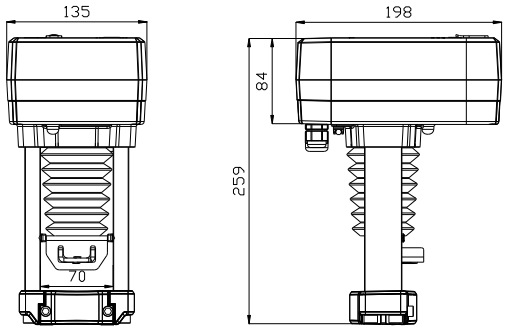
GVA20 Globe Valve Actuator, 2000N Series



Stroke 20mm, product height is 259mm
Stroke 40mm, product height is 326mm

Applications & Features

- Special designed for the control of globe valves in various HVAC system and equipment. Can apply with Fluxera's GVS/GVF (for water) or GVFH (for steam) globe valves or other brands' matchable globe valves
- Easily assemble: connect the actuator and valve, the adapter can self-centered the valve stem and can turn 360° on the neck of the valve
- Mechanical position indication and limit: can be adjusted within the full stroke
- Self-adaptive within max. 25mm stroke, with full stroke overload protection function
- Can be local controlled through the two buttons on top cover, for controlling any position of the valve
- Manual operation: can be mechanically manual operated, when the power is off or the control signal input is absence, for modulating, repairing or maintenance
- Fail position can be set by DIP switch, for the valve to stop at safe position when signal input is absence (Hold/0/50/100%)
- Three colors LED can display various status of the actuator
- DIP switches can set direction, speed, etc.
- Fail-safe function optional. When external power is failed, the actuator can still operate to the full open or close position which can be set by DIP switch.
- Multiple power, control and feedback signals can be selected
- Industrial design, stable and reliable operation, long life

Specifications

Force: 2000N
Stroke: 20 or 40mm, self-adaptive range 15~30 or 35~50mm
Medium and temp.: Water or steam, -10~200°C
Working temp.: -20~50°C, 0~95%RH, no cond. (EN60730-1)
Storage temp.: -40~80°C
Direction of operation: DIP switchable
Position indicator: Mechanical
Manual operation: By two push buttons
Running time: DIP switchable
20mm: Standard 60s(3s/mm) or medium speed 40s(2s/mm)
40mm: Standard 120s(3s/mm) or medium speed 80s(2s/mm)
Power supply:

Power range	19.2~28.8V AC/DC	85~265V, 50/60Hz
Consumption	Act 15VA, Hold 2VA	Act 18VA, Hold 2VA
Protection	class III-low voltage safe	class II-totally insulated

Control Signal: on/off, 3 pos; 0(2)~10V(input impedance 100kΩ)/(0)4~20mA(input impedance 200Ω); RS485/Modbus
Internal feedback: 0(2)~10V (max. output 1mA);
4~20mA (max. load 500Ω); RS485/Modbus RTU
Internal switch: 2xSPDT, 0.5A/30VDC
Service life: 100,000 cycles (full stroke, standard speed)
Fail-safe position: Zero or Full scale, set by DIP switch
Fail-safe delay time: 2s
Fail-safe running time: 20mm: <30s; 40mm: <60s
Capacitor charge time: 20mm: <10min; 40mm: <15min
Capacitor service life: >10 years

Electrical connection: PG11, screw terminal
Mode of operation: Type 1 to EN60730-1
Noise: ≤45dB
Protection: IP65
Material: Top and terminal cover: fire retardant PC(UL94V-0); box: die-casting aluminum; holder: aluminum alloy; base: die-casting aluminum; clip: SS
Weight: 3.6 kg (20mm, 24V basic model)
3.7 kg (40mm, 24V basic model)
Approval: CE

Models

Model	GVA20					Globe valve actuator, 2000N
Stroke		0				20mm
		1				40mm
Power			0			24V AC/DC
			1			85~265V AC
Control Signal				1		ON/OFF, 3-Pos
				2		0(2)~10V/(0)4~20mA
				8		RS485/Modbus RTU
Feedback Signal					0	N/A
					1	2xSPDT
					2	0(2)~10V/(0)4~20mA
					8	RS485/Modbus RTU

1. When control signal is 1, feedback may be 0 or 1; If control signal is 2, feedback may be 0 or 2. Meanwhile, the control signal will be the same as the feedback signal (whether it is current or voltage type, depends on the DIP set). If control signal is 8, feedback may be 0 or 8.
2. If select fail-safe function, add suffix S to the model.

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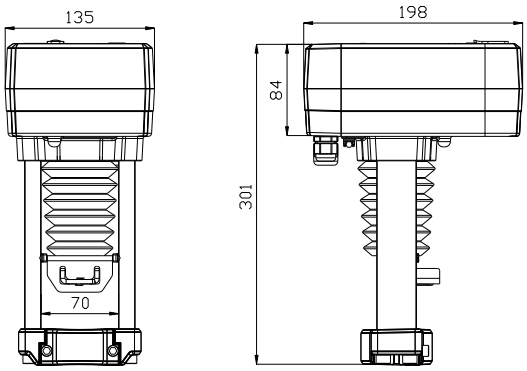
GVA35 Globe Valve Actuator, 3500N Series



Applications & Features

- Special designed for the control of globe valves in various HVAC systems and equipment. Can apply with Fluxera's GVS/GVF (for water) or GVSH/GVFH (for steam) or other brands' compatible globe valves
- Easily assemble: connect the actuator and valve, the adapter can self-centered the valve stem and can turn 360° on the neck of the valve
- Mechanical position indication and limit: can be adjusted within the full stroke
- Self-adaptive within max. 50mm stroke, with full stroke overload protection function
- Can be local controlled through the two buttons on top cover, for controlling any position of the valve
- Manual operation: can be mechanically manual operated when the power is off or the control signal input is absent, for modulating, repairing or maintenance
- Fail position can be set by DIP switch, for the valve to stop at safe position when signal input is absence (Hold/0/50/100%)
- Three colors LED can display various status of the actuator
- DIP switches can set direction, speed, etc.
- Fail-safe function optional. When external power is failed, the actuator can still operate to the full open or close position which can be set by DIP switch.
- Multiple power, control and feedback signals can be selected
- Industrial design, stable and reliable operation, long life

Specifications

Force: 3500N
Stroke: 40mm, self-adaptive range 35~50mm
Medium temp.: -10~200°C
Working temp.: -20~70°C, 0~95%RH, no cond. (EN60730-1)
Storage temp.: -40~80°C
Direction of operation: DIP switchable
Position indicator: Mechanical
Manual operation: By two push buttons
Running time: Standard 120s(3s/mm) or medium speed 80s(2s/mm), DIP switchable
Driver: Brushless DC motor (BLDC)
Power supply:

Power range	19.2~28.8V AC/DC	85~265V, 50/60Hz
Consumption	Act 28VA, Hold 3.6VA	Act 53VA, Hold 9VA
Protection	class III-low voltage safe	class II-totally insulated

Control Signal: on/off, 3 pos; 0(2)~10V(input impedance 100kΩ)/(0)4~20mA(input impedance 200Ω); RS485/Modbus
Internal feedback: 0(2)~10V (max. output 1mA); 4~20mA (max. load 500Ω); RS485/Modbus RTU
Internal switch: 2xSPDT，0.5A/30VDC
Service life: 100,000 cycles (full stroke, standard speed)
Fail-safe position: Zero or Full scale, set by DIP switch
Fail-safe delay time: 2s
Fail-safe running time: <80s
Capacitor charge time: <20min
Capacitor service life: >10 years

Electrical connection: PG11, screw terminal
Mode of operation: Type 1 to EN60730-1
Noise: ≤45dB
Protection: IP65
Material: Top and terminal cover: fire retardant PC(UL94V-0); box: die-casting aluminum; holder: aluminum alloy; base: die-casting aluminum; clip: SS
Weight: 4.1 kg (24V basic model)
Approval: CE

Models

Model	GVA35					Globe valve actuator, 3500N
Stroke		0				40mm
Power			0 1			24V AC/DC 85~265V AC
Control Signal				1 2 8		ON/OFF, 3-Pos 0(2)~10V/(0)4~20mA RS485/Modbus RTU
Feedback Signal					0 1 2 8	N/A 2xSPDT 0(2)~10V/(0)4~20mA RS485/Modbus RTU

1. When control signal is 1, feedback may be 0 or 1; If control signal is 2, feedback may be 0 or 2. Meanwhile, the control signal will be the same as the feedback signal (whether it is current or voltage type, depends on the DIP set). If control signal is 8, feedback may be 0 or 8.
2. If select fail-safe function, add suffix S to the model.

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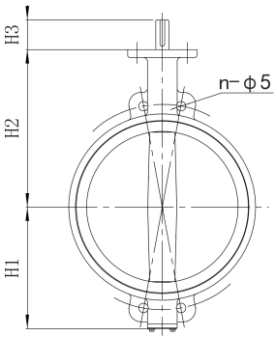
BFV Wafer Butterfly Valve

DN50-300

DN350-800



DN350-800

Dimension, Connection and Weight

Model	Dimension(mm)			Connection		Weight
	H1	H2	H3	Type	□	kg
BFV050	70	130	12	F05	11	1.8
BFV065	76	143	15	F05	11	2.3
BFV080	89	155	15	F05	11	2.7
BFV100	104	170	19	F07	11	4
BFV125	120	190	19	F07	14	5.5
BFV150	139	210	19	F07	14	6.6
BFV200	175	243	25	F10	17	10.9
BFV250	203	282	30	F10	22	15.8
BFV300	242	310	30	F10	22	24.4
BFV350	277.5	368	30	F12	27	31
BFV400	309	400	40	F12	27	42.5
BFV450	337	422	40	F14	36	58.1
BFV500	361	480	40	F14	36	79.1
BFV600	459	562	40	F16	36	124.5
BFV700	527	629	46	F16	46	220
BFV800	594	666	46	F16	46	250

Applications & Features

- Apply in the flow control of hot or cold water in various HVAC systems, such as chillers, cooling towers, heat exchangers, etc.
- Comply with ISO5211, can work with Fluxera's butterfly valve actuator BFVA series or other applicable actuators
- Compact and simple structure, easy to install with dual directions seal
- Special design of narrow brim sealing surface, compatible for popular butterfly flanges' connection
- With back structure's valve seat, make the sealing very reliable and long life
- Strengthened valve disc with nylon coating, corrosion preventive, erosion resistant and high temperature resistant. SS304 disc is optional
- The design of no shaft pin can avoid the leak of the hole
- Good reliability, small driving torque and big closing differential pressure

Specifications

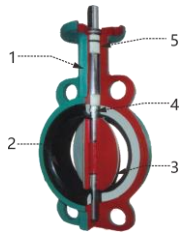
Size: DN50~800
Pressure: PN16
Medium: Cool or hot water, 50% or lower glycol water
Medium temperature: -10~120°C
Closing pressure: Max. 1200kPa, see Models
Flow characteristics: 0~60%: near equal percentage
0~100%: S shape
Leakage rate: Class A, comply with ISO 5208(tight sealing)
Angle of rotation: 90°
Pipe connection: Flange, comply with ISO7005
Actuator connection: Flange comply with ISO5211
Face to Face dimension: DIN EN 558, series 20
Install direction: Valve stem upward or horizontal

Kv Value of Different Valve Opening

DN	Kv Value of Different Valve Opening								
	10°		10°		10°		10°		10°
DN50	0.1	DN50	0.1	DN50	0.1	DN50	0.1	DN50	0.1
DN65	0.2	DN65	0.2	DN65	0.2	DN65	0.2	DN65	0.2
DN80	0.3	DN80	0.3	DN80	0.3	DN80	0.3	DN80	0.3
DN100	0.4	DN10	0.4	DN10	0.4	DN10	0.4	DN10	0.4
DN125	0.7	DN12	0.7	DN12	0.7	DN12	0.7	DN12	0.7
DN150	1.7	DN15	1.7	DN15	1.7	DN15	1.7	DN15	1.7
DN200	2.6	DN20	2.6	DN20	2.6	DN20	2.6	DN20	2.6
DN250	3.5	DN25	3.5	DN25	3.5	DN25	3.5	DN25	3.5
DN300	4.3	DN30	4.3	DN30	4.3	DN30	4.3	DN30	4.3
DN350	5.2	DN35	5.2	DN35	5.2	DN35	5.2	DN35	5.2
DN400	6.9	DN40	6.9	DN40	6.9	DN40	6.9	DN40	6.9
DN450	9.5	DN45	9.5	DN45	9.5	DN45	9.5	DN45	9.5
DN500	12.1	DN50	12.1	DN50	12.1	DN50	12.1	DN50	12.1
DN600	19.0	DN60	19.0	DN60	19.0	DN60	19.0	DN60	19.0
DN700	31.1	DN70	31.1	DN70	31.1	DN70	31.1	DN70	31.1
DN800	38.9	DN80	38.9	DN80	38.9	DN80	38.9	DN80	38.9

Structure & Material

1. Valve body: Nodular cast iron
2. Valve seat: EPDM
3. Valve disc: Nylon coating
   Nodular cast iron
4. Valve stem: SS
5. Sealing ring: EPDM



Formula for Flow Rate & Diff. Pressure

$$Kvs = \frac{F}{\sqrt{\frac{\Delta P}{100}}}$$

ΔP: Differential pressure when valve is 100% open, unit kPa
F: Flow rate when differential pressure is ΔP, unit m^3/h
Kvs: When valve is 100% open, differential pressure is 100kpa, medium density is $1g/cm^3$, the flow through the valve, unit m^3/h

Models and Closing Diff. Pressure

Model	DN		Closing Differential Pressure (ΔPs, kPa)									
			Toque(Nm)									
	mm	in	25	45	100	150	250	500	1000	2000	4000	6000
BFV050	50	2	1200									
BFV065	65	2.5	1000									
BFV080	80	3		1200								
BFV100	100	4		1000								
BFV125	125	5			1200							
BFV150	150	6				1200						
BFV200	200	8					1200					
BFV250	250	10						1200				
BFV300	300	12						800	1200			
BFV350	350	14							1000			
BFV400	400	16								1200		
BFV450	450	18								1000		
BFV500	500	20									1200	
BFV600	600	24									800	
BFV700	700	28										800
BFV800	800	32										600

1.SS304 disc models: add suffix S at the end of the model. For example: BFV300S.
2. ΔPs: (under the actuator torque), the max. permitted diff. pressure for ensuring the valve is 100% close.
3.The data in this table is for the BFV series valve matching with BFVA series actuator. If applied with other actuators, the closest data could be used.

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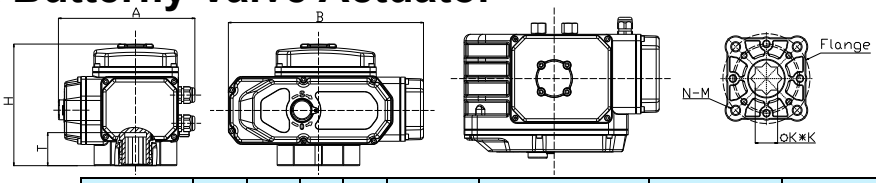
BFVA Butterfly Valve Actuator



Model	A	B	H	T	□K*K	N-M	Flange	Weight
BFVA0050*	140	178	120	30	14×14	4-M5,4-M6,4-M8	F03, F05, F07	3kg
BFVA0100*	151	217	138	35	17×17	4-M6,4-M8	F05, F07	4.5kg
BFVA0150*	151	217	138	35	17×17	4-M6,4-M8	F05, F07	4.5kg
BFVA0250*	193	291	158	45	22×22	4-M8,4-M10,4-M12	F07, F10, F12	10kg
BFVA0400*	193	291	158	45	22×22	4-M8,4-M10,4-M12	F07, F10, F12	10kg
BFVA1000*	225	314	199	50	27×27	4-M10,4-M16	F10/F14, F12	14.7kg
BFVA2000*	225	314	199	50	36×36	4-M10,4-M16	F10/F14, F12	14.7kg
BFVA4000*	293	439	309	82	46×46	4-M20,8-M16	F16, F25	43.7kg
BFVA6000*	293	439	309	82	46×46	4-M20,8-M16	F16, F25	57.3kg

Applications & Features

- Special designed for the control of butterfly valves of various HVAC systems and equipment. Can apply with Fluxera's BFV butterfly valves or other brands' butterfly valves
- Very easy to connect the actuator and butterfly valve, comply with ISO5211 standard flange
- The whole-in-one design of turbine and output shaft avoid the gap of key connection. Made of special brass alloy, has high strength, good wear resistance, high transmission accuracy and structural self-locking
- In case of power failure, it can be manually operated through the attached hex wrench
- Holder, coupling and screw are stainless steel made, can be water and rust proof without refueling or maintenance
- Mechanical position indicator made of tempered glass
- State of art die-casting aluminum enclosure, reduce electromagnetic interference
- Pass AC1800V voltage withstand test, class F insulated motor, independent wiring room, ensures good safety
- Heat and overload protection, electrical and mechanical dual limit protection
- Condensation protection of heating dehumidification can avoid electrical failure
- High protection rate of IP67

Specifications

Torque: 50~6000Nm
Medium and temp.: Cold or hot water, -10~120°C
Butterfly valve connection: comply with ISO5211
Angle of rotation: 90°
Running time: See Models. 60Hz is 5/6 times of 50Hz
Position indicator: Mechanical made of tempered glass
Power: 220VAC±10%, 50/60Hz
Driver: AC Motor
Consumption: 53~462VA, see details in Models
Control signal: ON/OFF: on/off, 3 pos;
Modulating: 4~20mA, optional 0~10V/2~10V
Feedback signal: ON/OFF:2(dry contact+wet contact)xSPDT aux. switch, 250VAC/5A;
Modulating: 4~20mA, optional 0~10V/2~10V
Moisture protect: Heater, AC220V/5~15W
Motor protect: Class F insulated, with overheat protector, start temp. at 125±5°C
Motor working mode: Intermittent work, S4
Electrical connection: Screw terminal
Cable Interface: 1-M20x1.5(ON/OFF),2-M20x1.5(Modulating)
Work temp.: -25~60°C, 5~95%RH, no cond.
Materials: Die-casting aluminum enclosure
Protection: IP67
Weight: See Dimensions
Approval: CE

Models

Actuator Model ON/OFF	Actuator Model Modulating	Torque Nm	Run time S/50Hz	Consumption VA	Heater W
BFVA0050	BFVA0050M	50	30	53	5
BFVA0100	BFVA0100M	100	30	77	5
BFVA0150	BFVA0150M	150	30	77	5
BFVA0250	BFVA0250M	250	30	84	15
BFVA0400	BFVA0400M	400	30	110	15
BFVA1000	BFVA1000M	1000	30	330	15
BFVA2000	BFVA2000M	2000	60	330	15
BFVA4000	BFVA4000M	4000	100	462	15
BFVA6000	BFVA6000M	6000	150	462	15

Match of Butterfly Valve and Actuator

Butterfly Valve			Actuator			DP
Model	DN mm	DN in	Model ON/OFF	Model Modulating	Torque Nm	kPa
BFV050	50	2	BFVA0050	BFVA0050M	50	1000
BFV065	65	2.5	BFVA0050	BFVA0050M	50	1000
BFV080	80	3	BFVA0050	BFVA0050M	50	1000
BFV100	100	4	BFVA0050	BFVA0050M	50	1000
BFV125	125	5	BFVA0100	BFVA0100M	100	1000
BFV150	150	6	BFVA0150	BFVA0150M	150	1000
BFV200	200	8	BFVA0250	BFVA0250M	250	1000
BFV250	250	10	BFVA0400	BFVA0400M	400	1000
BFV300	300	12	BFVA0400	BFVA0400M	400	1000
BFV350	350	14	BFVA1000	BFVA1000M	1000	1000
BFV400	400	16	BFVA1000	BFVA1000M	1000	1000
BFV450	450	18	BFVA2000	BFVA2000M	2000	1000
BFV500	500	20	BFVA2000	BFVA2000M	2000	1000
BFV600	600	24	BFVA4000	BFVA4000M	4000	1000
BFV700	700	28	BFVA6000	BFVA6000M	6000	1000
BFV800	800	32	BFVA6000	BFVA6000M	6000	1000

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BFVAH High-Performance Butterfly Valve Actuator

ON/OFF (50~2000 Nm)

Modulating (50~2000 Nm)

ON/OFF (4000~6000Nm)

Modulating (4000~6000Nm)

Applications & Features

- Special designed for the control of butterfly valves of various HVAC systems and equipment. Can apply with Fluxera BFV butterfly valves or other brands' butterfly valves
- Very easy to connect the actuator and butterfly valve, comply with ISO5211 standard flange
- 3D Dual color ribbon position indicator
- Very high efficiency transmission mechanism design with structural self-locking
- Very unique modulating cam make the valve control more accurate
- In case of power failure, it can be manually operated through the mechanic handwheel
- Condensation protection of heating dehumidification can avoid electrical failure
- High accurate of valve position control up to 1%
- Independent electrical unit design, strong protective circuit, ensure the safe operation and long life
- High protection rate of IP67

Specifications

Torque: 50~6000Nm
Medium and temp.: Cold or hot water, -10~120°C
Butterfly valve connection: comply with ISO5211
Angle of rotation: 90°
Running time: See Models. 60Hz is 5/6 times of 50Hz
Position indicator: 3D Dual color ribbon position indicator
Power: 220VAC±10%, 50/60Hz
Consumption: see details in Models
Power protection: 1500V/1 min.
Insulated resistance: 100MΩ/500VDC
Control signal: ON/OFF: on/off, 3 pos;
Modulating: 4~20mA (default) /0~10V/ 2~10V/ 0~20mA
Feedback signal: ON/OFF:2(dry contact + wet contact) x SPDT aux. switch, 250VAC/5A;
Modulating: 4~20mA (default) /0~10V/ 2~10V/ 0~20mA
1(dry contact) x SPDT aux. switch, 250VAC/5A
Status of power failure: Hold
Status of signal failure: 4~20mA/2~10V: open/close/hold, can be set; 0~10V: close
Moisture protect: heater of 220VAC/25W and breather valve
Motor protect: Class F insulated, with overheat protector, start temp. at 125±5°C
Number of runs test: inside counter (200Nm+ actuators)
Electrical connection: Screw terminal
Cable Interface: 2-M20x1.5
Work temp.: -25~70°C
Materials: Aluminum alloy enclosure with polyester epoxy powder coating
Protection: IP67
Weight: See Dimensions
Approval: CE

Models

Model ON/OFF	Model Modulating	Torque Nm	Run time S/50Hz	Consumption VA	Heater W	Weight Kg
BFVAH0050	BFVAH0050M	50	20	48	25	4
BFVAH0080	BFVAH0080M	80	30	48	25	4
BFVAH0200	BFVAH0200M	200	30	92	25	5
BFVAH0400	BFVAH0400M	400	30	136	25	8
BFVAH0800	BFVAH0800M	800	35	220	25	18
BFVAH1000	BFVAH1000M	1000	54	220	25	19
BFVAH2000	BFVAH2000M	2000	40	286	25	28
BFVAH2500	BFVAH2500M	2500	50	286	25	28
BFVAH4000	BFVAH4000M	4000	216	286	25	52
BFVAH6000	BFVAH6000M	6000	120	286	25	62

Match of Butterfly Valve and Actuator

Butterfly Valve			Actuator			DP
Model	DN mm	DN in	Model ON/OFF	Model Modulating	Torque Nm	kPa
BFV050	50	2	BFVAH0050	BFVAH0050M	50	1000
BFV065	65	2.5	BFVAH0050	BFVAH0050M	50	1000
BFV080	80	3	BFVAH0050	BFVAH0050M	50	1000
BFV100	100	4	BFVAH0050	BFVAH0050M	50	1000
BFV125	125	5	BFVAH0080	BFVAH0080M	80	1000
BFV150	150	6	BFVAH0200	BFVAH0200M	200	1000
BFV200	200	8	BFVAH0200	BFVAH0200M	200	1000
BFV250	250	10	BFVAH0400	BFVAH0400M	400	1000
BFV300	300	12	BFVAH0400	BFVAH0400M	400	1000
BFV350	350	14	BFVAH0800	BFVAH0800M	800	1000
BFV400	400	16	BFVAH1000	BFVAH1000M	1000	1000
BFV450	450	18	BFVAH2000	BFVAH2000M	2000	1000
BFV500	500	20	BFVAH2000	BFVAH2000M	2000	1000
BFV600	600	24	BFVAH2500	BFVAH2500M	2500	1000
BFV700	700	28	BFVAH4000	BFVAH4000M	4000	1000
BFV800	800	32	BFVAH6000	BFVAH6000M	6000	1000

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