

Electro-Pneumatic Positioner YT-1000L

Model	Acting Type	Explosion Protection	Lever Type	Orifice Type	Conduit - Air Connection	Operating Temp	Option *2
YT-1000L	S Single	N Non-Explosion	1 10 ~ 40mm	1 ϕ 1	1 G1/2 - PT1/4	S -20°C ~ 60°C	0 NONE
	D Double	M ATEX, IECEx, TS, KCs	2 30 ~ 70mm	2 ϕ 2	2 G1/2 - NPT1/4	H -20°C ~ 120°C	2 + SPTM (Smart type)
		A CSA, FM	3 60 ~ 100mm	3 None	3 G1/2 - G1/4	L -40°C ~ 70°C	3 + SPTM with LCD(Smart type)
		C KCs, NEPSI	4 100 ~ 150mm		4 M20 - NPT1/4 *1		
		I KCs			5 NPT1/2 - NPT1/4		
		X TIIS					

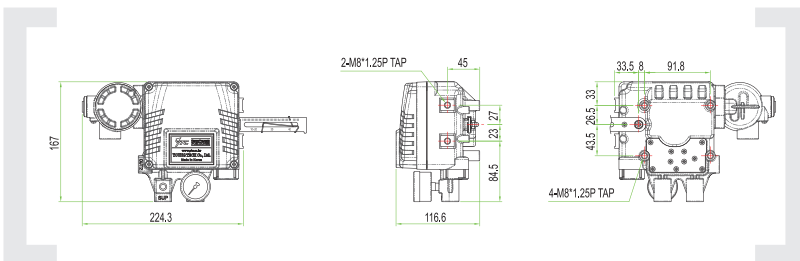
*1 M20 adapter is attached to conduit entry *2 With high-low temp and/or internal SPTM option, positioner must be non-explosion type .



YT-1000L



YT-1000L+SPTM(int.)



Item · Type	Single	Double
Input Signal	4-20mA DC	
Impedance	250 ± 15 Ω	
Supply Pressure	0.14~0.7MPa(1.4~7 bar)	
Stroke	10 ~150mm	
Air Connection	PT(NPT,G)1/4	
Gauge Connection	PT(NPT) 1/8	
Conduit	G(PF,NPT)1/2, M20	
Explosion Protection Type	ATEX (II 2 G)Ex dmb IIB T5 IECEx (II 2 G)EEEx md IIB T5 KCs Ex dmb IIB T5;Ex d IIC T5 IP66;Ex ia IIB T6 Gb TS Ex db mb IIB T5 Gb X CSA (Class I, Zone 1)Ex dm IIB T5 FM XP-S/II/1/CD/T5 Ta=60°C; DIP/II, III/1/EF/G/T5 Ta=60°C ;Type 4X NEPSI Ex dmb IIC T6 Gb TIIS Ex dmb IIB T5	
Ingress Protection	IP66	
Operating Temp	Operating	-20°C~70°C(-4~158°F)
	Explosion	-20°C~60°C(-4~140°F)
Linearity	± 1% F.S.	± 2% F.S.
Hysteresis	± 1% F.S.	
Sensitivity	± 0.2% F.S.	± 0.5% F.S.
Repeatability	± 0.5% F.S.	
Air Consumption	2.5 LPM (sup=0.14MPa)	
Flow Capacity	80LPM (sup=0.14MPa)	
Material	Aluminum Diecasting	
Weight	2.7kg (6.1 lb)	

* For additional **SPTM specification** refer to p.25.

The Electro-Pneumatic Positioner YT-1000L is used for operation of pneumatic linear valve actuators by means of electrical controller or control system with an analog output signal of DC 4 to 20mA or split ranges.

- Simple zero and span adjustment
- No resonance between 5-200Hz
- Auto/Manual switch
- RA v.s. DA action and 1/2 split range setting by simple adjustment
- Internal feedback signal is available as an option (weather proof only)

Electro-Pneumatic Positioner YT-1000R

Model	Acting Type	Explosion Protection	Lever Type	Orifice Type	Conduit - Air Connection	Operating Temp*2	Option1	Option2*2
YT-1000R	S Single	N Non-Explosion	1 M6×34L	1 φ 1	1 G1/2 - PT1/4	S -20°C ~ 60°C	0 NONE (St'd)	0 NONE
	D Double	M ATEX, IECEx, TS, KCs	2 M6×63L	2 φ 2	2 G1/2 - NPT1/4	H -20°C ~ 120°C	1 Dome Cover	1 + SPTM(Internal)
		A CSA, FM	3 M8×34L	3 None	3 G1/2 - G1/4	L -40°C ~ 70°C		2 + SPTM(External)
		C KCs, NEPSI	4 M8×63L		4 M20 - NPT1/4 *1			3 + L/S (Internal)
		I KCs	5 NAMUR		5 NPT1/2 - NPT1/4			4 + L/S (External)
		X TIIS						5 + SPTM + L/S (Internal)
							6 + SPTM + L/S (External)	

*1 M20 adapter is attached to conduit entry

*2 With high-low temp and/or internal external SPTM, L/S option, positioner must be non-explosion type.



YT-1000R



YT-1000R+SPTM(int)



YT-1000R+SPTM+L/S(int)



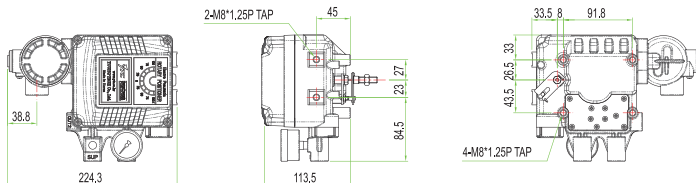
YT-1000R+DOME



YT-1000R+L/S(ext)
YT-1000R+SPTM+L/S(ext)



YT-1000R+SPTM(ext)



Item · Type	Single	Double
Input Signal	4-20mA DC	
Impedance	250 ± 15 Ω	
Supply Pressure	0.14~0.7MPa(1.4~7 bar)	
Stroke	0 ~ 90°	
Air Connection	PT(NPT,G)1/4	
Gauge Connection	PT(NPT) 1/8	
Conduit	G(PF,NPT)1/2, M20	
Explosion Protection Type	ATEX (II 2 G)Ex dmb IIB T5 IECEx (II 2 G)Ex md IIB T5 KCs Ex dmb IIB T5/Ex d IIC T5 IP66/Ex ia IIB T6 Gb TS Ex db mb IIB T5 Gb X CSA (Class I, Zone 1)Ex dmb IIB T5 FM XP-S/II/1/CD/T5 Ta=60; DIP/III/1/1/EF/G/T5 Ta=60; ;Type 4X NEPSI Ex dmb IIC T6 Gb TIIS Ex dmb IIB T5	
Ingress Protection	IP66	
Operating Temp	Operating	-20°C~70°C(-4~158°F)
	Explosion	-20°C~60°C(-4~140°F)
Linearity	± 1% F.S.	± 2% F.S.
Hysteresis	± 1% F.S.	
Sensitivity	± 0.2% F.S.	± 0.5% F.S.
Repeatability	± 0.5% F.S.	
Air Consumption	2.5LPM (sup=0.14MPa)	
Flow Capacity	80LPM (sup=0.14MPa)	
Material	Aluminum Diecasting	
Weight	2.8kg (6.2 lb)	

* For additional **SPTM, L/S specification** refer to p. 25, 27(Internal) and 26, 28 (External).

The Electro-Pneumatic Positioner YT-1000R is used for operation of pneumatic rotary valve actuators by means of electrical controller or control system with an analog output signal of DC 4 to 20mA or split ranges. (refer to YT-1000L, page 13)

Electro-Pneumatic Positioner YT-1050

Model	Motion Type	Acting Type	Explosion Protection	Lever Type		Orifice Type	Conduit - Air Connection	Operating Temp *1
				Linear	Rotary			
YT-1050	L Linear	S Single	N Non-Explosion	1 10 ~ 40mm	1 M6 × 34L	1 φ 1	2 G1/2-NPT1/4	S -20°C ~ 60°C
	R Rotary	D Double	M ATEX, KCs	2 30 ~ 70mm	2 M6 × 63L	2 φ 2		H -20°C ~ 120°C
				3 60 ~ 100mm	3 M8 × 34L	3 None	L -40°C ~ 70°C	
				4 100 ~ 150mm	4 M8 × 63L	5 NAMUR		

*1 With high-low temp positioner, must be non-explosion type.

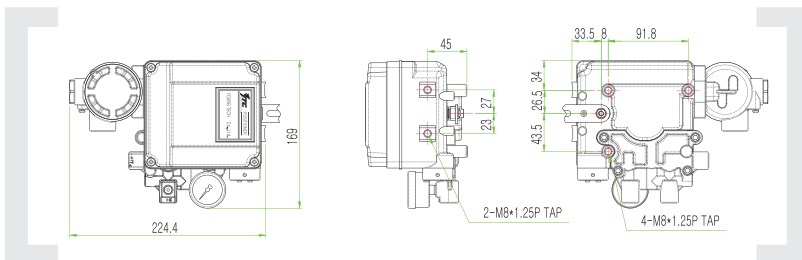


YT-1050R



YT-1050L

Item · Type		Single	Double
Input Signal		4-20mA DC	
Impedance		250 ± 15 Ω	
Supply Pressure		0.14~0.7MPa(1.4~7 bar)	
Stroke		10~150mm	0 ~ 90°
Air Connection		NPT 1/4	
Gauge Connection		NPT 1/8	
Conduit		G 1/2 (PF 1/2)	
Explosion Protection Type		ATEX (II 2 G)Ex dmb IIB T5 KCs Ex dmb IIB T5	
Ingress Protection		IP66	
Operating Temp	Operating	-20°C~70°C(-4~158°F)	
	Explosion	-20°C~60°C(-4~140°F)	
Linearity		± 1% F.S.	± 2% F.S.
Hysteresis		± 1% F.S.	
Sensitivity		± 0.2% F.S.	± 0.5% F.S.
Repeatability		± 0.5% F.S.	
Air Consumption		2.5LPM (sup=0.14MPa)	
Flow Capacity		80LPM (sup=0.14MPa)	
Material		Stainless steel 316	
Weight		5.71kg (12.6lb)	



YT-1050, the Electro-Pneumatic Positioner is used for operation of pneumatic valve actuators by means of electrical controller or control system with an analog output signal of DC 4 to 20mA or split ranges.

- Simple zero and span adjustment
- No resonance between 5-200Hz
- Auto/Manual switch
- RA v.s. DA action and 1/2 split range setting by simple adjustment