

# Smart Positioner YT-2500 / YT2550

Model	Motion Type	Acting Type	Explosion Protection	Lever Type		Conduit - Air Connection *1	Communication	Option	Fail Option
				Linear	Rotary				
YT-2500	<b>L</b> Linear	<b>S</b> Single	<b>N</b> Non-Explosion	<b>1</b> 10~40mm	<b>1</b> M6×34L	G1/2 - PT1/4	<b>0</b> NONE	<b>0</b> NONE	<b>F</b> Fail Freeze
YT-2550	<b>R</b> Rotary	<b>D</b> Double	<b>I</b> ATEX, IECEx, NEPSI, KCs	<b>2</b> 20~70mm	<b>2</b> M6×63L	G1/2 - NPT1/4	<b>2</b> + HART	<b>1</b> + PTM <b>2</b> + L/S(Mechanical Type) <b>3</b> + L/S(Proximity Type) <b>4</b> + PTM+L/S(Mechanical Type) <b>5</b> + PTM+L/S(Proximity Type)	<b>S</b> Fail Safe
				<b>3</b> 50~100mm	<b>3</b> M8×34L	G1/2 - G1/4			
				<b>4</b> 100~150mm	<b>4</b> M8×63L	M20 - NPT1/4 *2			
					<b>5</b> NAMUR	NPT1/2 - NPT1/4			

\*1 YT-2550 is available for No.2 ONLY.

\*2 M20 adapter is attached to conduit entry



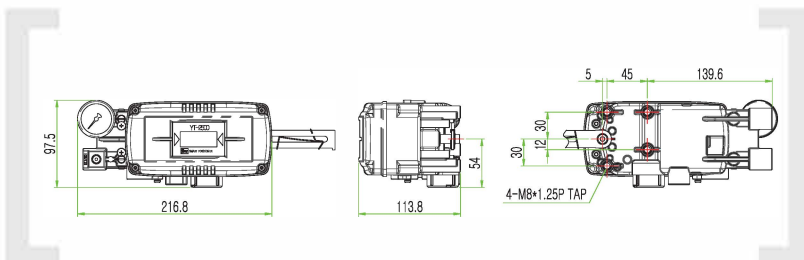
YT-2500



YT-2550



Item · Type		YT-2500	YT-2550
Input Signal		4~20mA DC	
Supply Pressure		0.14~0.7MPa(1.4~7 bar)	
Stroke	Linear Type	10~150mm	
	Rotary Type	0 ~ 90°	
Impedance		Max.500Ω @ 20mA DC	
Air Connection		PT(NPT,G)1/4	NPT 1/4
Gauge Connection		PT(NPT)1/8	NPT 1/8
Conduit		G(PF,NPT)1/2, M20	G(PF)1/2
Operating Temp.	Operating Temp.	-30°C ~ 80°C (-22~176 ° F)	
	Explosion Temp.	-40~60°C(T5) / -40~40°C(T6)	
Linearity		±0.5% F.S.	
Hysteresis		±0.5% F.S.	
Sensitivity		±0.2% F.S.	
Repeatability		±0.3% F.S.	
Air Consumption	Fail Freeze	0.01LPM(sup=0.14MPa)	
	Fail Safe	6 LPM(sup=0.14MPa)	
Flow Capacity	Fail Freeze	60 LPM(sup=0.14MPa)	
	Fail Safe	40 LPM(sup=0.14MPa)	
Output Characteristics		Linear, EQ%, Quick Open user set (16Point)	
Material		Aluminum Diecasting	Stainless steel 316
Ingress Protection		IP66	
Explosion Protection Type		ATEX, IECEx Ex ia IIC T5/T6 Gb, Ex iaD IIC T85°C/T100°C IP6X NEPSI Ex ia IIC T5/T6 KCs ia IIC T5/T6, EX iaD IIC T100°C/T85°C	
Communication(Optional)		HART(ver.5)	
L/S	Mechanical Type(Omron)	AC 125V, 3A DC 30V, 2A	
Rating	Proximity Type(P&F)	DC 8.2V 8.2mA	
Weight		1.5kg (3.3lb)	2.9kg (6.4lb)



YT-2500 Smart Valve Positioner accurately controls valve stroke, according to input signal of 4-20mA being delivered from controller.

- Fail freeze function
- Auto calibration
- LCD display
- Near zero air consumption level
- PD control
- Feedback signal
- HART communication
- 4 buttons for local control
- Limit switch