Smart Positioners YT-2500 / YT-2501 / YT2550

Piezo technology with communications

Design features

- Fail Freeze and Fail Safe function. Enables the valve maintain the last position (Fail Freeze) or move to a pre-determined position (Fail Safe) on the loss of electrical power supply or the pneumatic supply air.
- Auto calibration. Simple menu structure with options to auto calibrate all parameters or zero and end points only.
- LCD display. Alphanumeric digital display for process values and calibration.
- Low air consumption level. Almost zero air leakage.

- Feedback signal. Analogue feedback signals with 4 to 20 mA, mechanical and proximity switch options.
- **PD control.** Pre-calibrated and user configurable variables via front panel pushbutton menu.
- HART® communication. Allows commands, position feedback and diagnostics to be sent digitally over the current loop.
- Front panel pushbuttons for configuration. 4 robust and positive acting pushbuttons for field configuration.











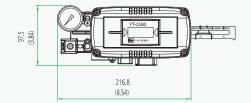


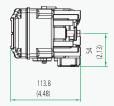
YT-2500 Aluminium Enclosure



YT-2550 Stainless Steel Enclosure

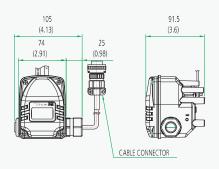






YT-2501 Remote Mounting Option





Dimensions: mm (Inches ")



Smart Positioners YT-2500 / YT-2501 / YT2550

Item Type		YT-2500	YT-2550	YT-2501
Input Signal		4 to 20 mA DC		
Supply Pressure		0.14 to 0.7 MPa (1.4 to 7 bar)		
Stroke	Linear Type	10 to 150 mm		
JUOKE	Rotary Type	0 to 90°		
Impedance		Max. 500 Ω @ 20 mA DC		
Air Connection		PT(NPT,G)1/4	NPT1/4	PT(NPT,G)1/4
Gauge Connection		PT(NPT)1/8	NPT1/8	PT(NPT)1/8
Conduit		G(PF,NPT)1/2, M20	G(PF)1/2	G(PF,NPT)1/2, M20
Operating Temp.	Standard Type	-30 to 80 °C (-22 to 176 °F)		
	LCD	-30 to 85 °C (-22 to 185 °F)		
	Explosion Temp.	-40 to 60 °C (T5) -40 to 40 °C (T6)		
	Remote Sensor	-		-40 to 120 ° C (-40 to 248 °F)
Linearity		±0.5% F.S.		
Hysteresis		±0.5% F.S.		
Sensitivity		±0.2% F.S.		
Repeatability		±0.3% F.S.		
Air	Fail Freeze	0.01 LPM (sup = 0.14 MPa)		
Consumption	Fail Safe	6 LPM (sup = 0.14 MPa)		
Flow	Fail Freeze	60 LPM (sup = 0.14 MPa)		
Capacity	Fail Safe	40 LPM (sup = 0.14 MPa)		
Output Characteristics		Linear, EQ%,	Quick Open use	r set (18 Point)
Material		Aluminium Diecasting	Stainless Steel 316	Aluminium Diecasting
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 Ex ia IIC T5/T6, EX iaD IIIC T100°C/T85°C		
Communication (Option)		HART (ver.5)		
L/S Rating	Mechanical Type (Omron)	AC 125 V, 3 A DC 30 V, 2 A		-
	Proximity Type (P&F)	DC 8.2 V 8.2 mA		
Weight	Body	1.5 kg (3.3 lb)	2.9 kg (6.4 lb)	1.5 kg (3.3 lb)
	Linear Remote sensor	-	-	0.6 kg (1.3 lb)
	Rotary Remote sensor	-	-	0.9 kg (2.0 lb)

