

Smart Positioner YT-2700

Piezo technology single acting

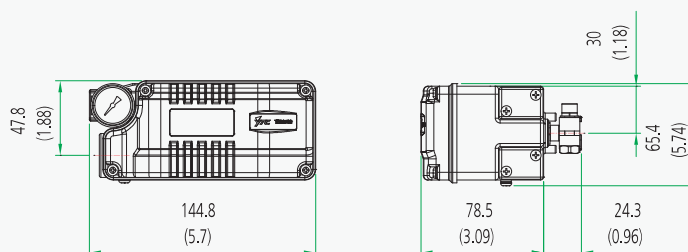
Design features

- **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.
- **PID 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-2700 Compact Aluminium Positioner



Dimensions: mm (Inches *)

Item Type	YT-2700	
Input Signal	4 to 20 mA DC	
Supply Pressure	0.14 to 0.7 MPa (1.4 to 7 bar)	
Stroke	Linear Type	5 to 35 mm
	Rotary Type	0 to 90°
Impedance	Max. 450 Ω @ 20 mA DC	
Air Connection	PT(NPT)1/4	
Gauge Connection	PT(NPT)1/8	
Conduit	G1/2(PF1/2)	
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)
Linearity	±0.5% F.S.	
Hysteresis	±0.5% F.S.	
Sensitivity	±0.2% F.S.	
Repeatability	±0.3% F.S.	
Air Consumption	Fail Freeze	0.01 LPM (sup = 0.14 MPa)
	Fail Safe	6 LPM (sup = 0.14 MPa)
Flow Capacity	Fail Freeze	9 LPM (sup = 0.14 MPa)
	Fail Safe	40 LPM (sup = 0.14 MPa)
Output Characteristics	Linear, EQ%, Quick Open user set (18 Point)	
Material	Aluminium Diecasting	
Ingress Protection	IP66	
Explosion Protection Type	KCs Ex ia IIC T5	
Communication (Option)	HART (ver.5)	
Weight	0.82 kg (1.8 lb)	

Product Code

YT-2700 - L - S - N - 2 - 4 - 2 - 3 - S

Model

YT-2700 = Single acting positioner

Motion Type

L = Linear
R = Rotary

Acting Type

S = Single

Explosion Protection

N = Non-Explosion
I = KCs

Lever Type

Linear	Rotary
1 = 5 to 35 mm	1 = M6 x 34L
	2 = M6 x 63L
	3 = M8 x 34L
	4 = M8 x 63L
	5 = NAMUR

Conduit & Air Connection

1 = G1/2 - PT1/4
2 = G1/2 - NPT1/4
3 = G1/2 - G1/4
4 = M20 - NPT1/4
5 = NPT1/2 - NPT1/4

Communications

0 = NONE
2 = HART protocol communication

Output Options

0 = NONE
1 = 4 to 20 mA feedback

Fail Option

F = Fail Freeze
S = Fail Safe