

The TS800 Smart Valve Positioner controls the valve stroke in response to an input signal of 4-20mA from the control panel, DCS or calibrator.



J Flow Controls **TS800 Series** Smart Valve Positioner

FEATURES & BENEFITS

- Quick and easy auto calibration
- Large flow pilot valve (over 100LPM)
- HART communication (HART 7)
- Partial stroke test (PST) function
- Alarm & self diagnostic function
- By-pass valve (A/M switch) installed
- Limit switch (mechanical or proximity type)

MODELS



TS800 Standard



TS800 with Limit Switch



TS820 Remote



Interface Structure

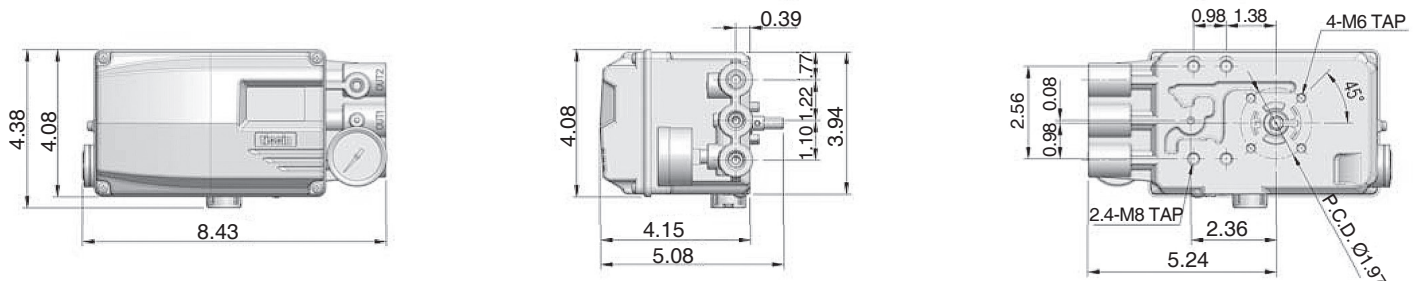
- | | |
|-----------------------------|----------------------------------|
| 1. LCD | 6. Position transmitter (Option) |
| 2. Button (4) | - 2 Wire |
| 3. Alarm modules | - 4-20mA DC feedback signal |
| 4. Input signal (4-20mA DC) | 7. Limit switch (Option) |
| 5. Ground | - Mechanical type |
| | - Proximity type |

SPECIFICATIONS

		TS800L	TS800R
Input Signal		4-20mA DC	
Impedance		500Ω at 20mA DC	
Supply Pressure		0.14~0.7MPa	
Stroke		10~150MM	0~90°
Air Connection		PT 1/4, NPT 1/4	
Gauge Connection		PT 1/8, NPT 1/8	
Conduit		G(PF) 1/2, NPT 1/2	
Explosion-proof type		EX IA IIC T5/T6	
Enclosure		IP66	
Ambient Temp.	Standard type	-22°F ~ 185°F	
	Low temp type	-40°F ~ 185°F	
	Explosion proof	-40°F ~ 140°F (T5) / -40°F ~ 104°F (T6)	
	LCD operating	-22°F ~ 185°F	
Linearity		± 0.5% F.S.	
Sensitivity		± 0.2% F.S.	
Hysteresis		± 0.5% F.S.	
Repeatability		± 0.3% F.S.	
Air Consumption		Below 2.3LPM (Sup=0.14MPa)	
Required Air Quality		Class 3 (ISO 8573-1)	
Flow Capacity		Over 100LPM (Sup=0.14MPa)	
Material		Aluminum die cast	
Weight		4.85 lbs	
Hart Version*		HART 7	
Position transmitter*	Connection type	2 Wire	
	Supply voltage	10 ~ 30V DC	
Limit switch rating*	Mechanical type	AC 125V, 3A DC30V, 2A	
	Proximity type	DC8.2V 8.2A	

* Options

DIMENSIONS



TS800 Series Smart Valve Positioner

HOW TO ORDER

Model		Acting Type		Explosion Proof		Connection		Lever (Linear)	Lever (Rotary)
TS800	Standard	L	Linear	N	Non-explosion proof	Conduit Entry	Air Connection	1 0.4" ~ 3.15"	1 M6 x 34L
TS820	Remote	R	Rotary	A	Ex ia IIC T5/Y6	1 G1/2	PT1/4	2 2.8" ~ 5.9"	5 NAMUR
						2 G1/2	NPT1/4	3 Adapter type (2.76")	
						3 NPT1/2	NPT1/4		
						4 M20	NPT1/4		

Ambient Temp		Communication		Limit Switch	Cable Length (TS820)
S	-22°F ~ 185°F	0	None	0 None	1 5m
L	-40°F ~ 185°F	1	4~20mA Position transmitter	M Mechanical	2 10m
		2	HART	P Proximity	X User define (less than 20m)
		3	HART with 4~20mA Position transmitter		



J Flow Controls®
 4665 Interstate Drive
 Cincinnati, OH 45246
 513-731-2900
jflowcontrols.com

While the information and specifications contained in this literature are believed to be accurate, they are supplied for informative purposes only and should not be considered certified or a guarantee of satisfactory results. Nothing contained herein is to be construed as a warranty or guarantee, express or implied, regarding any matter with respect to this product. Because J Flow Controls® is continually improving and upgrading its product design, the specifications, dimensions and information contained herein are subject to change without notice.