

Smart Valve Positioner TS800/TS805 Series

Description

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

Certified

IP₆₆

SIL2



Features



TS800 Standard type



TS800 with Limit switch type



TS805 Stainless steel 316 type

- + Quick and easy auto calibration
- + Large flow pilot valve (Over than 100LPM)
- + Flapper / Nozzle type Torque motor
- + By-pass valve (A/M switch) installed
- + HART communication (HART 7)
- + Limit switch (Mechanical or Proximity type)
- + Partial stroke test (PST) function
- + Alarm function
- + Self diagnostic

TS820 (Remote type)



TS820 Body

TS820 Sensor

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 |

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Specifications

Model	TS800	TS805
Input signal	4~20mA DC	
Impedance	500Ω at 20mA DC	
Supply pressure	0.14~0.7MPa	
Stroke	10~150mm(Linear), 0~90°(Rotary)	
Air connection	PT1/4, NPT1/4, G1/4	NPT1/4
Gauge connection	PT1/8, NPT1/8	NPT1/8
Conduit	G1/2, NPT1/2, M20	G1/2
Explosion proof type	II 2G Ex ia IIC T5/T6 Gb II 2D Ex ia IIIC T100°C/85°C Db IP6X	
Enclosure	IP66 (EN60529)	
Ambient Temp.	Standard type	-30°C~85°C
	Low temp type	-40°C~85°C
	Explosion proof	-40°C~60°C(T5) / -40°C~40°C(T6)
	LCD operating	-30°C~85°C
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	Stainless steel 316
Weight	2.2kg	4.2kg
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

Product code

Model	TS800								
Standard type	TS800								
Remote type	TS820								
Stainless steel 316 type	TS805								
Acting type	Linear type	L							
	Rotary type	R							
Explosion proof type	Non-explosion proof	N							
	Ex ia IIC T5/T6	A							
Connection type*	Conduit entry	Air connection							
	G1/2	PT1/4	1						
	G1/2	NPT1/4	2						
	NPT1/2	NPT1/4	3						
	M20	NPT1/4	4						
	M20	G1/4	5						
Lever (Linear type)	10 ~ 80mm		1						
	70 ~ 150mm		2						
	Adapter type (70mm)		3						
Lever (Rotary type)	M6 x 34L		1						
	NAMUR		5						
Ambient Temp.	-30°C~85°C						S		
	-40°C~85°C						L		
	-60°C~85°C (For EAC certification)						U		
Communication	None							0	
	4~20mA Position transmitter							1	
	HART							2	
	HART with 4~20mA Position transmitter							3	
Limit switch (For TS800 & TS805)	None								0
	Mechanical type								M
	Proximity type								P
	With dome cover (Without Limit switch)								D
Cable length (For TS820)	5m								1
	10m								2
	User define (Less than 20 meters)								x

* For TS805's connection type, only code no. 2 is available.

Dimension [Unit:mm]

