

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.

Features



TS800 Standard type



TS805 Stainless steel 316 type



TS800 with Limit switch type

Certified



- + 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



- | | |
|---|--|
| <ol style="list-style-type: none"> 1. LCD 2. Button (4) 3. Alarm modules 4. Input signal (4~20mA DC) 5. Ground | <ol style="list-style-type: none"> 6. Position transmitter (Option) <ul style="list-style-type: none"> - 2 Wire - 4~20mA DC feedback signal 7. Limit switch (Option) <ul style="list-style-type: none"> - Mechanical type - Proximity type |
|---|--|

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	
Gauge connection	PT1/8, NPT1/8	
Conduit	G1/2, NPT1/2, M20	
Explosion proof type	II 2G Ex ia IIC T5/T6 Gb II 2D Ex ia IIC T100°C/85°C Db IP66	
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	2.6kg	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			
STS 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	
Lever (Linear type)	M20	G1/4	5	
	10 ~ 80mm		1	
	70 ~ 150mm		2	
	Adapter type (30mm)		3	
Lever (Rotary type)	Adapter type (70mm)		4	
	M6 x 39L		1	
Ambient Temp.	NAMUR		5	
	-30°C~85°C			S
	-40°C~85°C			L
	-60°C~85°C (For Russia EAC)			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

Dimension [Unit:mm]

