Smart Valve Positioner TS800/TS805 Series

NKTIONALE SICHERHEI

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 with Limit switch type

+ Quick and easy auto calibration

Certified

(Ex)

IECEx

+ Large flow pilot valve (Over than 100LPM)

EAC

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- + 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

Interface structure



1. LCD

- 2. Button (4)
- 3. Alarm modules
- 4. Input signal (4~20mA DC)
- 5. Ground

- 6. Position transmitter (Option) - 2 Wire
- 4~20mA DC feedback signal
- 7. Limit switch (Option)
 - Mechanical type
- Proximity type

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Specifications

Model		TS800/TS820	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	ATEX, CCC, KC	Ex ia IIC T5/T6 Gb Ex ia IIIC T100°C/85°C Db						
	EAC	1 Ex ia IIC T5/T6 Ga						
	CSA/US	Class I, Div2, Groups A,B,C,D; T5T6 Class I, Zone 1 AEx ib IIC T5T6 Gb Class II, Div2, Groups E,F,G; T100°CT85° Zone 21 AEx ib IIIC T100°CT85°C Db						
Enclosure	EN60529	IP6	66					
Lindtoodiro	NEMA	Type 4	Туре4Х					
	Standard type	-30°C~85°C						
Ambient -	Low temp type	-40°C~85°C						
Temp.	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 Remote type STS 316 type		TS800 TS820 TS805)							
Acting type	Linear type L									
	Rotary type R									
Explosion proof type	Non-exp ATEX&IE CCC&NE KCS, EA	PSI	proof		N A					
	CSA/US				S					
Connection	Conduit entry Air connection									
type	G1/2		PT1/			1				
	G1/2 NPT1/4 2				_					
	NPT1/2 NPT1/4 3 M20 NPT1/4 4									
	M20		G1/4			5				
Lever	10 ~ 80r	nm					1			
(Linear type)	70 ~ 150mm					2				
	Adapter type (30mm) 3 Adapter type (70mm) 4						3 4			
Lever	M6 x 39L				4					
(Rotary type)	NAMUR					5				
Ambient Temp.	-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							1			
	HART 2									
HART with 4~20mA Position transmitter 3										
Limit switch	None							0		
(For TS800) &TS805)	Mechanical type							М		
&13803)	Proximity type							Ρ		
	With dome cover (Without Limit switch)								D	
Cable length (For TS820)	5m							1		
	10m							2		
	User define (Less than 20 meters)								Х	

* Options

Dimension [Unit:mm]





