

Smart Valve Positioner TS700 Series (Fail Freeze type)

- Fail freeze function
- Zero air consumption when standby signal
- Prevents circuit board corrosion by external air exhaust design
- Built in air filter(5 micron)
- PST & diagnostic function



Smart Valve Positioner TS700 Series (Fail Freeze Type)

Description

TS700 Smart Valve Positioner controls the valve stroke in response to an input signal of 4-20mA from the control panel, DCS, or calibrator.

Certified

















Features



- + Fail freeze function
- → Zero air consumption when standby signal
- + Prevents circuit board corrosion by external air exhaust design
- Quick and easy auto calibration
- → Built in air filter(5 micron)
- HART communication (HART 7)
- Limit switch (Mechanical or Proximity type)
- Partial stroke test (PST) function
- Self diagnostic

TS720 (Remote type)



Fail freeze function diagram

When the 4~20mA input signal or air supply signal is fail, cut off the air pressure to the actuator to hold the current valve position



Smart Valve Positioner TS700 Series (Fail Freeze Type)

Specifications

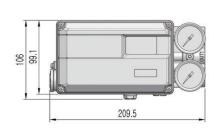
Model		TS700					
Input signal		4~20mA DC					
Impedance		500Ω at 20mA DC					
Supply pres	sure	0.14~0.8MPa					
Stroke		10~150mm (Linear), 0~90° (Rotary					
Air connection		PT1/4, NPT1/4, G1/4					
Gauge connection		PT1/8, NPT1/8					
Conduit		G1/2, NPT1/2, M20					
Explosion proof type		Ex ia IIC T5/T6 Gb Ex ia IIIC T100°C/85°C Db					
Enclosure		IP66 (EN60529)					
	Standard type	-25°C~80°C					
Ambient Temp.	Low temp type	-40°C~80°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 0.01LPM (Sup=0.14MPa)					
Required air quality		Class 4 (ISO 8573-1)					
Flow capaci	ty	Over 75LPM (Sup=0.14MPa)					
Material		Aluminum die cast					
Weight		1.5kg					
HART version*		HART 7					
Position transmitter*	Connection type	2 Wire					
	Supply voltage	10~30V DC					
Limit switch	Mechanical type	AC 125V, 3A DC30V, 2A					
rating*	Proximity type	DC8.2V 8.2A					

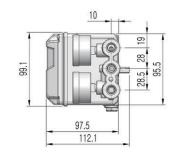
^{*} Options

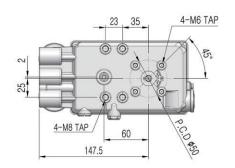
Product code

Model		TS700								
Stantard type Remote type		TS700 TS720								
Motion type	Line Rota		L R							
Acting type		gle acting ıble acting		S D						
Explosion proof type	ATE CCC KCS	Non-explosion proof N ATEX&IECEX A CCC&NEPSI C KCS K EAC E								
Connection type	G1/ G1/	2 「1/2)	Air con PT1/ NPT NPT NPT G1/4	/4 1/4 1/4 1/4	ection	1 2 3 4 5				
Lever (Linear type)	70 ~ For	10 ~ 70mm								
Lever (Rotary type)	M6 x 39L 1 NAMUR 5									
Ambient Temp.	-25°C~80°C S -40°C~80°C L									
Communication	Pos HAF	None Position transmitter(4~20mA) HART communication HART with Position transmitter(4~20mA)								
Limit switch (For TS700)	None Mechanical type Proximity type With dome cover (Without Limit switch)									
Cable length (For TS720)	5m 10m User define (Less than 20 meters)									1 2 x

Dimension [Unit:mm]









Tissin Co.,Ltd. (주)티씬

201-1105, No 397, Seokchen-ro, Ojeong-gu, Bucheon-si, Gyeonggi-do, Korea 14449

Tel: +82-32-624-4573, Fax: +82-32-624-4574

www.tissin.co.kr



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