



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.

Features



Certified



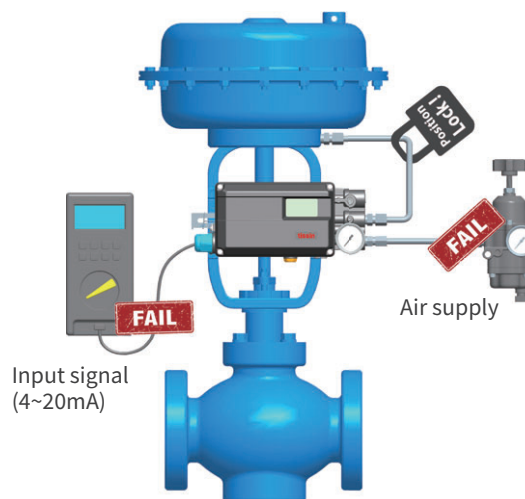
- + Fail freeze function
- + Zero air consumption when standby signal
- + Prevents circuit board corrosion by external air exhaust design
- + Quick and easy auto calibration
- + Built in air filter(5 micron)
- + HART communication (HART 7)
- + Limit switch (Mechanical or Proximity type)
- + Partial stroke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

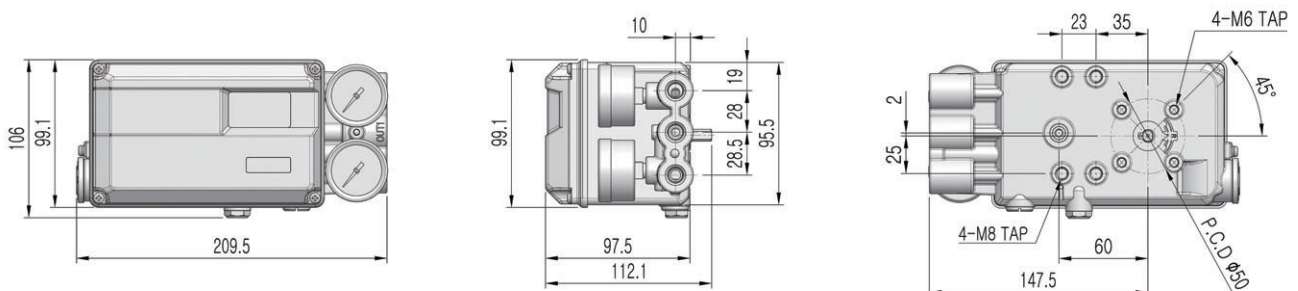
Model	TS700	
Input signal	4~20mA DC	
Impedance	500Ω at 20mA DC	
Supply pressure	0.14~0.8MPa	
Stroke	10~150mm (Linear), 0~90° (Rotary)	
Air connection	PT1/4, NPT1/4, G1/4	
Gauge connection	PT1/8, NPT1/8	
Conduit	G1/2, NPT1/2, M20	
Explosion proof type	Ex ia IIC T5/T6 Gb Ex ia IIIC T100°C/85°C Db	
Enclosure	IP66 (EN60529)	
Ambient Temp.	Standard type	-25°C~80°C
	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 capacity	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 rating*	Mechanical type	AC 125V, 3A DC30V, 2A
	Proximity type	DC8.2V 8.2A

* Options

Product code

Model	TS700								
Standard type	TS700								
Remote type	TS720								
Motion type	Linear	L							
	Rotary	R							
Acting type	Single acting	S							
	Double acting	D							
Explosion proof type	Non-explosion proof	N							
	ATEX&IECEX	A							
	CCC&NEPSI	C							
	KCS	K							
	EAC	E							
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)	10 ~ 70mm		1						
	70 ~ 150mm		2						
	For tubeless actuator (30mm)		3						
	For tubeless actuator (70mm)		4						
Lever (Rotary type)	M6 x 39L		1						
	NAMUR		5						
Ambient Temp.	-25°C~80°C						S		
	-40°C~80°C						L		
Communication	None							0	
	Position transmitter(4~20mA)							1	
	HART communication							2	
	HART with Position transmitter(4~20mA)							3	
Limit switch (For TS700)	None								0
	Mechanical type								M
	Proximity type								P
	With dome cover (Without Limit switch)								D
Cable length (For TS720)	5m								1
	10m								2
	User define (Less than 20 meters)								x

Dimension [Unit:mm]



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Solutions for control valve system

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