



FST800-224 – Intrinsically Safe Pressure Transmitter

- **4-20mA output with HART protocol optional**
- **Digital temperature compensation and nonlinear correction technique**
- **Self calibration of zero point and full range**
- **User can calibrate it by keys on panel**
- **Meet requirement of Exia II CT6 Ga intrinsic safety.**



FST800-224 Intrinsic-safety industrial pressure transmitter is a high precision, high stability product with kinds of optional parameters and LCD displayer. It is with HART protocol optional. Users can manage or calibrate parameters through computer or keys on panel. It is very easy to operate.

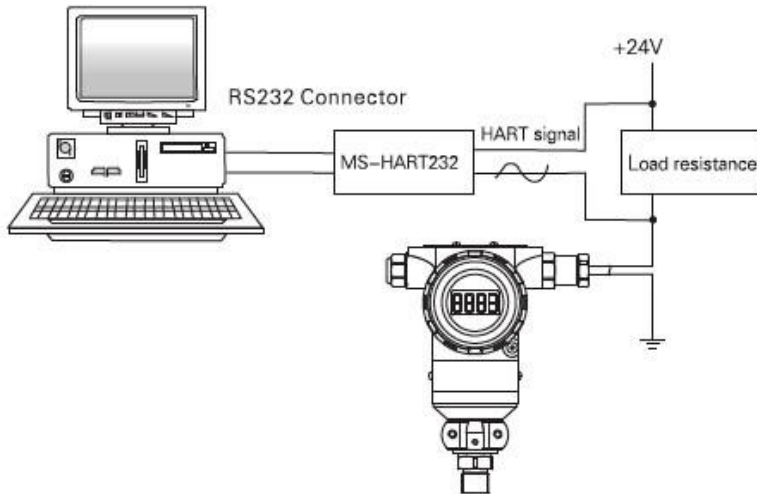
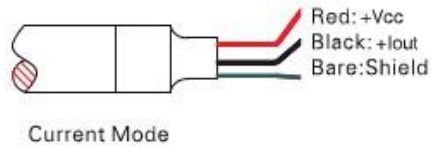
The product uses the latest digital technology in the field of sensor, combined with the advanced technology of pressure transmitter, precision digital temperature compensation and nonlinear correction technique. It is designed with the reliable intrinsic safety circuit and standard signal output. It is with characteristic of high accuracy, wide range scope, and is suitable for pressure testing of fluid.

The product is two wire, it can replace pressure transmitters of two wire analog output directly.

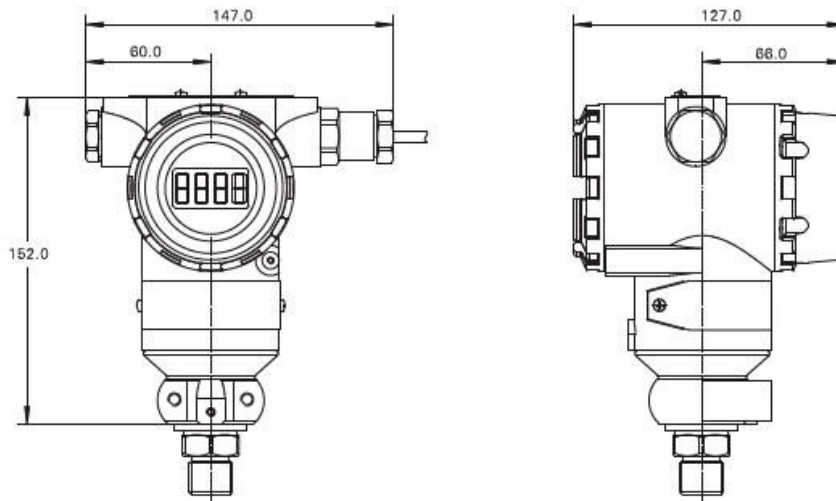
	Technical Specification	
Standard Range	Pressure Type: gauge pressure absolute pressure	
	Pressure Range (bar) : 2 4 5 10 16 25 40 60 100 160 200 250 300 400 500 600	
Technical Index	Signal Output	4~20mA Hart (Optional)
	Signal Line Specification	2wire
	Display	LCD displayer
	Supply Voltage	12-28VDC (24V recommended)
	Accuracy	±0.5%FS ±1%FS
	Zero Drift	±0.02%FS/°C
	Thermal Sensitivity Shift	±0.02%FS/°C
	Longterm Stability (1 Year)	±0.1%FS
	Frequency Response (-3dB)	3.2kHz
	Compensated Temperature	-20~+85°C
	Storage Temperature	-40~+105°C
	Overload Pressure	150% FS
	Burst Pressure	200% FS
	Mechanical Vibration	±20g
	Pressure connection	M20*1.5 or customized
	Electrical connection	Direct lead
Environmental Protection	IP65	
Housing	Aluminum alloy with ex-proof function	
Explosion-proof Grade	Exia II CT6 Ga	



Connection



Dimension (mm)





Pressure Sensor and Transmitter Model Selection Form									
Item	Specification	Pressure Type	Accuracy	Output/Supply Voltage	Electrical konnection	Pressure Connection	Pressure flange	Pressure Unit	
Pressure Type	Meter Pressure	G							
	Absolute Pressure	A							
	Sealing Pressure	S							
Accuracy	0.1 % FS		1						
	0.3 % FS		2						
	0.5 % FS		3						
	1 % FS		4						
	Others		X						
Output/Supply Voltage	mV signal 5-15 VDC			0					
	0.5-4.5 VDC 5 VDC			1					
	0-5 VDC 9-30 VDC			2					
	0-10 VDC 15-30 VDC			3					
	4-20 mA 9-30 VDC			4					
	RS232 12-30 VDC			6					
	RS485 12-30 VDC			7					
	CANBUS 12-30 VDC			8					
	MODBUS 12-30 VDC			9					
	PROFIBUS 12-30 VDC			A					
Others			X						
Electrical Connection	Hirschmann connector				1				
	Peckard connector				2				
	M12 connector				3				
	Aviation connector				4				
	Direct lead				5				
	AMP connector				6				
	Others				X				
Pressure Connection	NPT 1/4 Male					A			
	G1/2 Male					B			
	G1/4 Male					C			
	G3/4 Male					D			
	G1/8 Male					E			
	G3/8 Male					F			
	R1/4 Male					G			
	7/16-20 UNF Male					H			
	M20 x 1.5 Male					I			
	M18 x 1.5 Male					J			
	M12 x 1.5 Male					K			
	7/16-20 UNF Female (hexagon 16)					L			
	7/16-20 UNF Female (hexagon 22)					M			
Others					X				
Range	Actual value						Range		
Pressure Unit	bar								B
	psi								P

Pressure sensor Mode

F S T 8 0 0 - 2 0 1 G 2 2 2 A - 1 6 B
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨



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