

Low Cost Pressure Transmitter Gauge & Absolute FPT74 Series



Features

- Wider pressure range;
- Full stainless steel construction; optional pressure port; flush diaphragm type, sanitation type and anticorrosive type are available; protection IP65;
- Optional output signal; local calibration and displayable;
- Reversed-polarity, transient current & voltage protection, which conform to EMI standard;
- Reliable performance, easy application
- Short protection and reverse polarity protection
- Measure gauge, absolute and vacuum gauge
- CE approved

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Introduction

FPT74 transmitter uses piezoresistive OEM pressure sensor with isolated stainless steel diaphragm as signal sensing element, through automatic testing, laser trimming compensating zero and sensitivity in wider temperature range; the amplifier circuit is in stainless steel housing, transforming sensor signal into standard output signal. Through strict component making, semi-finished product and all-finished product testing and aging, the transmitter is stable and reliable, having excellent flexibility, sensitivity and diversity. The product is widely used for pressure measure and control of petroleum, chemi-industry, metallurgy, power station and hydrology, etc.

Specification

Pressure range: -0.1...0 ~ 0.01...70MPa

Overpressure: 1.5 times FS or 110MPa (min. value is valid)

Pressure type: gauge, absolute or sealed gauge

Accuracy: 0.25%FS (typ.) 0.5%FS (max.)

Long-term stability: 0.2%FS/year (typ. 0.3%FS/year (max.)

Zero temp. drift: 0.03%FS/°C (≤100kPa) ; 0.02%FS/°C (>100kPa)

FS temp. drift: 0.03%FS/°C (≤100kPa) ; 0.02%FS/°C (>100kPa)

Operation temp. -30°C~80°C

Storage temp.: -40°C~120°C

Power supply: 15~30VDC 15~28VDC 15~28VDC

Output signal: $4\sim20$ mADC $0\sim10/20$ mADC $0/1\sim5/10$ VDC

Transmitting: 2-wire 3-wir 3-wire

Load: \leq (U-15) $/0.02\Omega \leq$ (U-15) $/0.02\Omega > 100k$

Protection: IP65 for both cable and plug connection

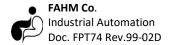
Electric connection: Plug connection or 1.5m cable connection

Housing: stainless steel

Diaphragm: stainless steel 316L

O-ring: Viton

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Construction and Outline Dimension

Construction material:

Housing: stainless steel 1Cr18Ni9Ti

Sensor housing: stainless steel 1Cr18Ni9Ti

Diaphragm: stainless steel 316L

Sealed-ring: Viton

Plug housing: plastic

Cable: Φ7.5mm Polyethylene Special Cable

Electric Connection

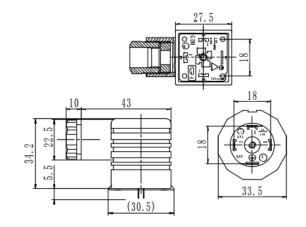
Transmitter connects with the outer circuit through DIN43650 plug. Terminal definition as below:

Connection diagrams

All connectors with moulded cable have the same colour assignment as the unshielded cable outlet.

Angular Connector					
(8)		Current (2Wire)	Voltage (3Wire)		
	U _B	Brown (1)	Brown (1)		
	0V	Blue (2)	Blue (2)		
	S+	-	Black (3)		

Notes to the second second



Legend

U_B Positive power supply terminalOV Negative power supply terminal

S+ Analogue output

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Order Code FPT74 Series

Model	Transmitter type						
FPT74	Piezoresistive Pressure transmitter Accuracy: 0.25% FS						
Measurement type							
G	Gauge						
Α	Absolute						
Pressure Range	FPT74	Pressure Range	FPT74				
0	0 to 70 mbar	6	0 to 10 bar				
1	0 to 350 mbar	7	0 to 20 bar				
2	0 to 700 mbar	8	0 to 35 bar				
3	0 to 1 bar	9	0 to 70 bar				
4	0 to 2 bar	10	0 to 100 bar				
5	0 to 7 bar	11	0 to 200 bar				
Transmitter Output							
E	4~20mADC						
F	1~5VDC						
J	0~5VDC						
Q	0~10mADC						
U	0~20mADC						
V	0~10VDC						
Materials of Cons	truction			<u> </u>			
	Diaphragm	Pressure por	t	Housing			
2	SS 316L	SS		SS			
3	SS 316L	SS 316L		SS 316L			
4	Alloy C-276 (Hastelloy)	SS		SS			
5	Tantalum SS			SS			
Options							
B1	Electrical Entry: Plug connection, DIN 40050						
B2	Electrical Entry: Cable connection						
В3	Electrical Entry: Plug connection, DIN 43650						
M3	3 1/2 digits LCD digital indicator						
C1	Process Connection M20×1.5 Male						
C2	Process Connection G1/2 Male						
C3	Process Connection ½ NPT Male						
C4	Process Connection G1/4 Male						
C5	Process Connection G1/4 Female						
Н	Heat Sink Interface Gauge conser to measure vacuum						
Y Gauge sensor to measure vacuum Typical Model Number: FPT74 E 2 B1M3C2Y							
Typical Womber: FFT/4 E Z BIWISCZY							

Order Note:

- 1. Please pay attention that the media should be compatible with the contacted parts;
- 2. Flush diaphragm transmitter's pressure range: $0\sim$ 70kPa...35MPa;

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