



Model TFP-40C For General Industrial Applications



Features

- Measuring ranges from 1.6bar to 250bar
- Gauge type
- Accuracy: $\pm 0.5\%$ FSO
- Calibrated and temperature compensated
- Ceramic pressure sensor design
- Variety of Pressure & Electrical connections
- Output 4...20mA, 0...10V, 0.5...4.5V and others

Product Overview

The TFP-40C pressure transmitters offers the user the high stability of ceramic piezoresistive sensor in a low cost OEM package. The TFP-40C is developed for applications of processing and control operations involving aggressive media. The compact and rugged design makes these pressure transmitter suitable for applications including process control systems, hydraulic systems and valves, refrigeration and HVAC controls, level measurement and test equipment.

A wide range of process connection and electrical connection options are available to meet almost requirement.

Applications

- Process control systems
- Refrigeration and HVAC controls
- Hydraulic systems and valve
- Mechanical and plant engineering
- Pumps and compressors

Standard Pressure Ranges

Nominal pressure	gauge	sealed gauge	absolute
0...1.6bar	●		
0...2.5bar	●		
0...4bar	●		
0...6bar	●		
0...10bar	●		
0...16bar	●		
0...25bar	●		
0...40bar	●		
0...60bar	●		
0...100bar	●		
0...160bar	●		
0...250bar	●		

Other pressure ranges available. Please consult the factory.

TFP-40C: Ceramic Pressure Transmitter

Performance Specifications

Parameter	Value	Units	Notes
General			
Pressure Range	0-1.6,...,250	bar	1bar=14.5psi
Overpressure	1.5xFS		

Environmental			
Operating Temperature Range	-20 to +85	°C	-4 °F to 185 °F
Compensated Temperature Range	0 to +70	°C	32 °F to 158 °F
Storage Temperature Range	-40 to +125	°C	-40 °F to 257 °F
Vibration	10	g	20 to 2000Hz
Shock	100	g	10ms
Cycles	10x10 ⁵	cycles	

Electrical @ 25°C(77°F)					
Output Signal	4...20mA	0...5Vdc	1...5Vdc	0...10Vdc	0.5...4.5Vdc(ratiometric)
Power Supply(Vs)	12...36Vdc	12...36Vdc	12...36Vdc	15...36Vdc	5Vdc
Load Resistance	<(Vs-12)/0.02A (For current output), >10kΩ (For voltage output)				
Insulation Resistance	100MΩ @50Vdc				

Physical Specifications	
Media Compatibility	All media compatible with ceramic
Housing	304 stainless steel
Diaphragm	ceramic
Seal Ring	Viton or NBR
Oil Filling	/
Protection	IP65(Standard), IP66(only for cable outlet)
Net Weight	Approx.175g


Parameter	Minimum	Typical	Maximum	Units	Notes
Performance					
Accuracy	0.25	0.5	1.0	%FSO	1,2
Temp Coeff - Zero		±1.5	±2.0	%FSO	3
Temp Coeff - Span		±1.5	±2.0	%FSO	3
Long-Term Stability		±0.2	±0.3	%FSO/year	1


Notes


1. All values measured at 25°C(77°F)
2. Including non-linearity, hysteresis and repeatability.
3. 0°C to 70°C(32°F to 158°F) with reference to 25°C(77°F).

The listed specifications and dimensions are subject to change without prior notice.

Connection Diagrams

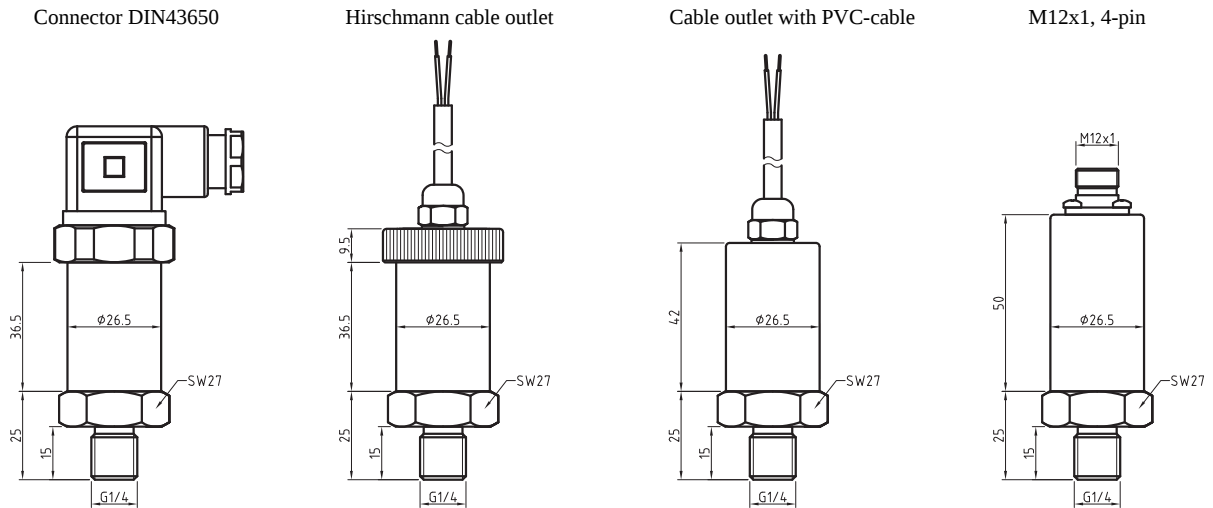
Connector DIN43650			
		2-wire(current)	3-wire(voltage)
	Supply+	1	1
	Signal+	2	3
	Gnd	-	2

Cable outlet			
		2-wire(current)	3-wire(voltage)
	Supply+	red	red
	Signal+	black	green
	Gnd	-	black

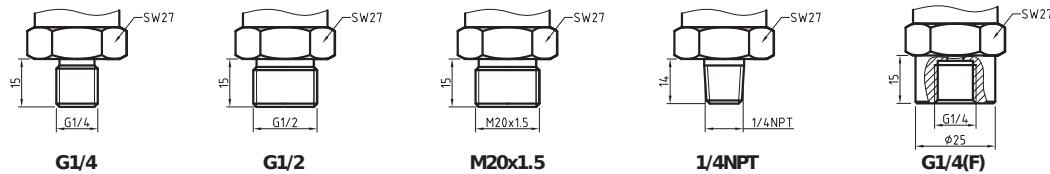
Connector M12x1(4-pin)			
		2-wire(current)	3-wire(voltage)
	Supply+	1	1
	Signal+	2	3
	Gnd	-	2

TFP-40C: Ceramic Pressure Transmitter

Dimensions (in mm)



Mechanical Connection (in mm)



Ordering Information

Option1: Model							
TFP-40C	Ceramic Pressure Transmitter						
Option2: Pressure Ranges							
0016	0...1.6bar	0400	0...40bar				
0025	0...2.5bar	0600	0...60bar				
0040	0...4bar	1000	0...100bar				
0060	0...6bar	1600	0...160bar				
0100	0...10bar	2500	0...250bar				
0160	0...16bar	Cxxx	Customized range				
0250	0...25bar						
Option3: Pressure Type							
G		gauge					
Option4: Output Signal							
42		4...20mA					
05		0...5Vdc					
15		1...5Vdc					
10		0...10Vdc					
45		0.5...4.5(ratiometric)					
Option5: Accuracy							
05		0.5%FSO					
10		1.0%FSO					
Option6: Electrical Connection							
D		Connector DIN43650					
H		Hirschmann cable outlet,length=1.5m					
C		Cable outlet with PVC-cable,length=1.5m					
M		M12x1, 4-pin					
Option7: Mechanical Connection							
M2		M20x1.5(male)		N1		1/4NPT(male)	
G4		G1/4(male)		F4		G1/4(female)	
G2		G1/2(male)		Nx		Customized	
TFP-40C	0060	G	42	05	D	G4	Examples of Ordering Code: TFP-40C-0060-G-42-05-D-G4

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