TFP-40C...Technical Specification Document Approvals & Certifications:



Ceramic Pressure Transmitter

CE





Model TFP-40C For General Industrial Applications

Features

- Measuring ranges from 1.6bar to 250bar
- Gauge type
- Accuracy: ±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.

Standard Pressure Ranges

Nominal pressure	gauge	sealed gauge	absolute
01.6bar	•		
02.5bar	•		
04bar	•		
06bar	٠		
010bar	•		
016bar	٠		
025bar	•		
040bar	•		
060bar	•		
0100bar	•		
0160bar	•		
0250bar	•		

Other pressure ranges available. Please consult the factory.

Applications

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

TFP-40C: Ceramic Pressure Transmitter

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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 1	85 °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 200	0Hz
Shock	100			g	10ms	
Cycles	10x10 ⁵			cycles		
Electrical @ 25°C(77°F)						
Output Signal	420mA	05Vdc	15Vdc	010Vdc	0.54.5Vd	c(ratiometric)
Power Supply(Vs)	1236Vdc	1236Vdc	1236Vdc	1536Vdc	5Vdc	
Load Resistance	$<$ (Vs-12)/0.02A (For current output), $>$ 10k Ω (For voltage output)					
Insulation Resistance	100MΩ @50Vdc					
Physical Specifications						
Media Compatibility	All media con	mpatible with	ceramic			
Housing	304 stainless steel					
Diaphragm	ceramic					
Seal Ring	Viton or NBI	2				
Oil Filling	/					
Protection	IP65(Standar	rd), IP66(only	for cable outl	et)		
Net Weight	Approx.175g	5				
Parameter	Minimum	Typical	Maxim	um Un	its	Notes
Performance						
Accuracy		0.5	1.0	%F	SO	1,2
Temp Coeff - Zero		±1.5	±2.0	%F	SO	3
Temp Coeff - Span		±1.5	±2.0	%F	SO	3
Long-Term Stability		±0.2	±0.3	0/ F	SO/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 DIN436			Cable outlet				
Ē		2-wire(current)	3-wire(voltage)			2-wire(current)	3-wire(voltage)
	Supply+	1	1		Supply+	red	red
	Signal+	2	3		Signal+	black	green
	Gnd	-	2		Gnd	-	black
Connector M12x1(4-pin)						
		2-wire(current)	3-wire(voltage)				

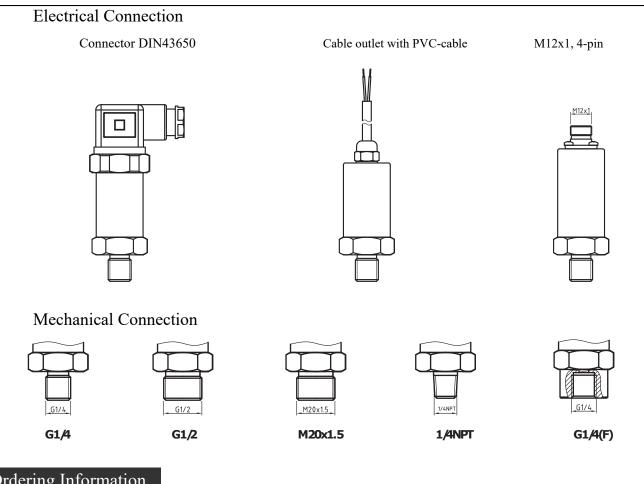
		2-wire(current)	5-wire(vo
	Supply+	1	1
4.02	Signal+	2	3
	Gnd	-	2

Trumen Process Indicator (Model-ILP)

Dimension: 65 x 45 x 45 mm Display: 4 Digit 7 Segment Display resolution: 1999 to 9999 Input: 4-20mA Accuracy: mA : 0.5% of span Enclosure: ABS



TFP-40C: Ceramic Pressure Transmitter



Ordering Information

Option1: N	Iodel									
TFP-40C	Cerami	eramic Pressure Transmitter								
	Option2	Option2: Pressure Ranges								
	0016	01.6ba	r	0400	040)bar				
	0025	02.5ba	r	0600	060)bar				
	0040	04bar		1000	010)0bar				
	0060	06bar		1600		-				
	0100	010bar		2500	025	50bar				
	0160	016bar		Cxx	x Custo	omized rang	ge			
	0250	025bar	r							
		Option3	Pressure	Туре						
		G	gauge							
			Option4	: Output S	Signal					
			42	420mA						
			05	05Vdc						
			15	15Vdc						
			10	010Vd	010Vdc					
			45	0.54.5(0.54.5(ratiometric)					
				Option5:	Accurac					
				01	0.5%FS					
				10	1.0%FS	-				
						: Electrica				
					D	Connecto				
					C	-		PVC-cable,length=1.5	m	
					М	M12x1,				
						Option7				
						Ix		t Indicator		
						I		ndicator		
							-	8: Mechanical Conn		1/4 (DT(1)
							M2 G4	M20x1.5(male) G1/4(male)	N1 F4	1/4NPT(male) G1/4(female)
								G1/4(male) G1/2(male)	F4 Nx	Customized
TFP-40C	0060	G	42	01	D	Ix	G2 G2	/		P-40C-0060-G-42-01-D-Ix-G2



Specifications are subject to change without prior notice

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