Pressure Sensors for Liquid and Gas









Description

The 7MF Series Pressure Sensors are suitable for the measurement of static and dynamic positive pressure in HVAC facilities, particularly in hydraulic and pneumatic systems using liquid or gaseous media (steam applications).

The 7MF Series Pressure Sensors are available in several different pressure ranges, from 0-15 psid to 0-300 psid.

Features

- · Piezo-resistive measuring system
- 0 to 10 Vdc and 4 to 20 mA output signals
- · Measurement unaffected by changes in temperature
- · High temperature stability
- No mechanical aging or creepage
- · Excellent EMC characteristics

Applications

The 7MF Series Pressure Sensors are used for the following applications:

- Heating, Ventilation and Air Conditioning (HVAC)
- · Energy Management Systems
- Chiller, Boiler and Steam Applications

7MF Specifications

Power Supply	
	DC 1633 V
	±15 % at AC 24 V
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Output Signal	
	e connection; power supply DC 10 to 36V
0 to 10 Vthree-wire	e connection; power supply DC 15 to 36V
Application Range	0 to 40 bar, refer to table below.
Accuracy	(FS = Full Scale)
Total of linearity, hysteresis	(
	<±0.3 % FS
Zero point offset voltage	<30 Mv
Temperature Drift	
	<±0.015 % FS/K (typically)
	<±0.015 % FS/K (typically)
•	<2 ms
•	
Nominal Pressure	Relative pressure as in "Ordering
	Information" (measurement of difference
	from ambient pressure
Max. Admissible Pressure and	
Rupture Pressure	3 x scale end value of measuring
	range (FS) <4 ba
	2.5 x scale end value o
	measuring range (FS) >4 ba

Neutral and slightly corrosive liquids and gases		
10 to +239°F (-40 to +125°C)		
Maintenance-free		
Optional		
3 x 0.25 mm ² stranded wires		
External thread G1/2"		
40 to +85°C <95% RH		
Storage/transport Climatic Conditions		
40 to +85°C <95% RH		
89/336/EEC		
dio Communication Act 1992		
Stainless Steel (1.4305)		
Ceramics diaphragm		
Stainless Steel (1.4305)		
FPM (Viton) spec.		
0.53 lb. (0.24 kg)		

7MF Series Product Ordering

Pressure Range (psi)	Output Signal	Part No.
0 - 15 PSI	4-20ma	7MF156544BB005EA1
	0-10 V	7MF156544BB105EA1
0 - 30 PSI	4-20ma	7MF156544BE005EA1
	0-10 V	7MF156544BE105EA1
0 - 60 PSI	4-20ma	7MF156544BF005EA1
	0-10 V	7MF156544BF105EA1
0 - 100 PSI	4-20ma	7MF156544BG005EA1
	0-10 V	7MF156544BG105EA1
0 - 150 PSI	4-20ma	7MF156544CA005EA1
	0-10 V	7MF156544CA105EA1
0 - 200 PSI	4-20ma	7MF156544CB005EA1
	0-10 V	7MF156544CB105EA1
0 - 300 PSI	4-20ma	7MF156544CD005EA1
	0-10 V	7MF156544CD105EA1

