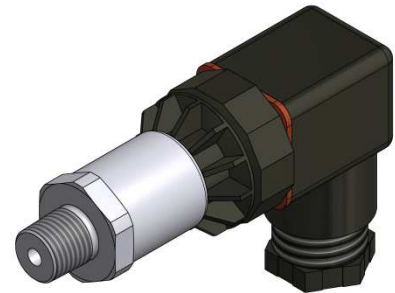


7MF Series

Sitrans Pressure Transducers



Description

7MF... series pressure transducers accurately measure the pressure of liquid, gas, or vapor.

Features

- Measuring accuracy of 0.25% of full scale
- Temperature-compensated measuring cell
- Suitable for aggressive and non-aggressive media
- Stainless steel NEMA 4 housing
- 1/2" NPT electrical connection
- Compact design

Application

7MF... series transducers measure the pressure of liquid, gas, or vapor. A selection of transducers is available for measuring pressures up to 750 PSI. 7MF... series pressure transducers produce either a 4-20 mA or 0-10 Vdc output signal that is linearly proportional to the input pressure.

Product Part Numbers

Table 1: Available 7MF... Pressure Transducers

Pressure Range	Output Signal	
	4-20 mA	0-10 Vdc
0-15 PSI	7MF1565-4BB00-5EA1	7MF1565-4BB10-5EA1
0-30 PSI	7MF1565-4BE00-5EA1	7MF1565-4BE10-5EA1
0-60 PSI	7MF1565-4BF00-5EA1	7MF1565-4BF10-5EA1
0-100 PSI	7MF1565-4BG00-5EA1	N/A
0-150 PSI	7MF1565-4CA00-5EA1	7MF1565-4CA10-5EA1
0-200 PSI	7MF1565-4CB00-5EA1	7MF1565-4CB10-5EA1
0-300 PSI	7MF1565-4CD00-5EA1	7MF1565-4CD10-5EA1
0-500 PSI	7MF1565-4CE00-5EA1	7MF1565-4CE10-5EA1
0-750 PSI	7MF1565-4CF00-5EA1	7MF1565-4CF10-5EA1

Specifications

Physical characteristics	Materials	
	-Housing	Stainless Steel
	-Measuring cell	Ceramic
	-Electronics module	Ceramic
	-Gasket	Viton
	-Process connection	Stainless steel
	Media	Aggressive and non-aggressive liquid, gas, or vapor
	Electrical connection	1/2" NPT
	Process connection	1/4" NPT
	NEMA rating	NEMA 4
	Accuracy	0.25% of full scale
	Process temperature	5 to 257 °F [-15 to 125 °C]
	Ambient temperature	-13 to 185 °F [-25 to 85 °C]
	Weight	0.55 lb [0.25 kg]

Installation

- The output signal is linearly proportional to the input pressure.
- A steam syphon loop (pig tail) should be installed between the steam source and the pressure transducer as shown in Figure 1. As condensate forms in the syphon loop, it creates a water barrier to protect the transducer from heat and chemicals. On new installations, it is recommended to add water to the syphon loop to protect the transducer when condensate has not yet formed.

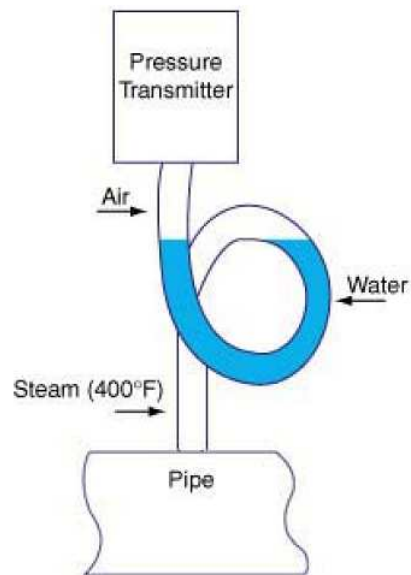
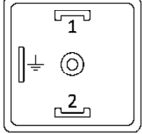
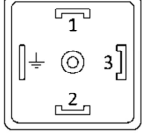
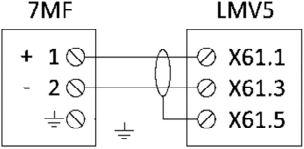
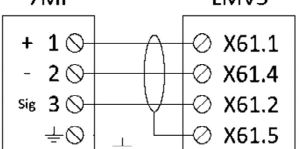
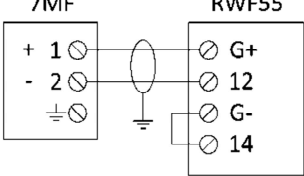
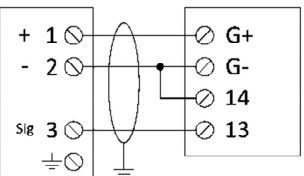
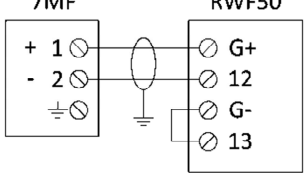
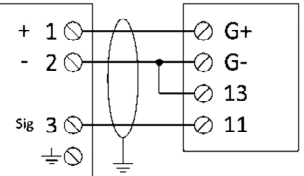
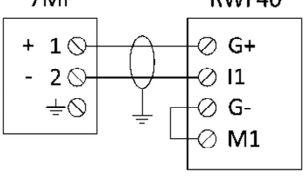
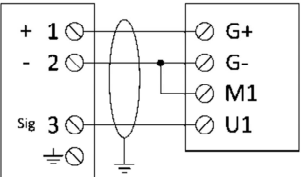
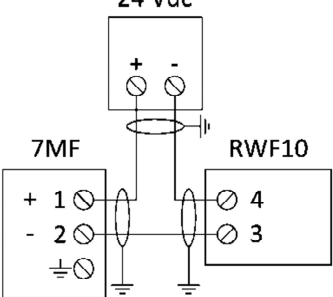
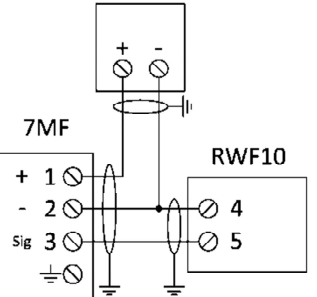


Figure 1: Example of a Syphon Loop

- A cord grip comes installed on the back of the transducer for the electrical connection. To use 1/2" conduit instead, remove the cord grip, washer, and packing.

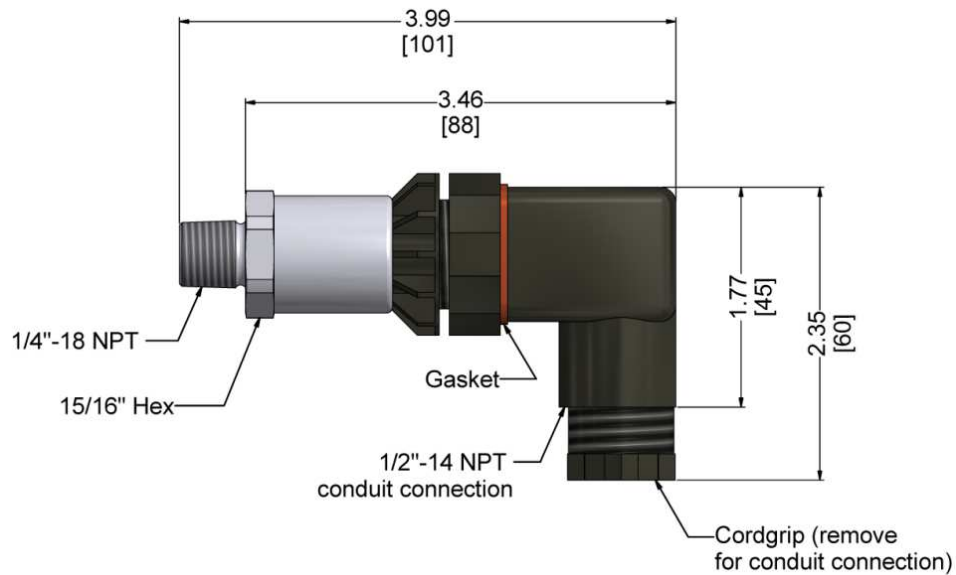
Wiring

Table 2: 7MF... Pressure Transducer Wiring

Controller Type	4-20 mA 	0-10 Vdc 
LMV5...		
RWF55...		
RWF50...		
RWF40...		
RWF10...		

Dimensions

Dimensions in inches; millimeters in brackets



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