

7MF156x Pressure Sensor Rev Sep 2011

Benefits

- High measuring accuracy, 0.25% of full scale typical
- Aggressive and non-aggressive media
- Measures the pressure of liquids, gasses and vapor
- Compact design

Design

- Stainless steel housing
- Stainless steel process connection
- Ceramic measuring cell and electronics module
- Temperature-compensated cell has a thin-film strain gauge mounted on a ceramic diaphragm
- Electrical connection 1/2" NPT
- The output current /voltage are linearly proportional to the input pressure



Ordering data

7MF1565x pp x 05 EA 1 (see Options)

Base part number specifies:

- *Sitrans pressure transmitter*
- *Stainless steel Nema 4 housing*
- *Plug connector with a cable inlet*
- *Process connection 1/4"-18 NPT*
- *Vitron internal sealing material between sensor and housing*

Options:

pp two letters specifying the pressure range
(Detailed in the chart below)

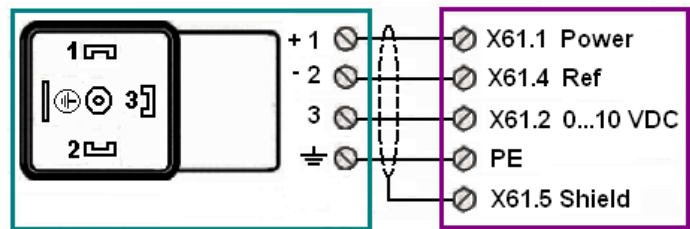
x one number specifies output signal

0 = 4...20 mA power supply 10...36 VDC

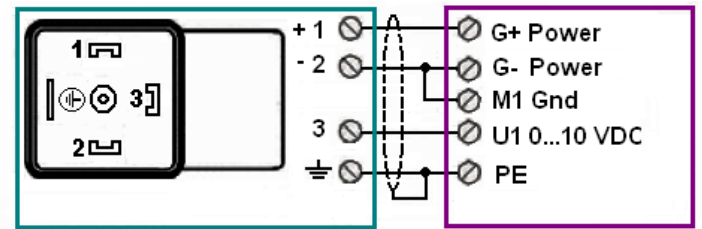
1 = 0...10 VDC

| Pressure Range | 4...20 mA 7MF1565 | 0...10 Vdc 7MF1565 | 4...20 mA Obsolete 7MF1564 | 0...10 Vdc Obsolete 7MF1564 | 0...10 Vdc Obsolete QBE620 | 0...10 Vdc Obsolete QBE2000 |
|----------------|----------------------|-----------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|
| 0-15 psi | 7MF15654BB005EA1 | 7MF15654BB105EA1 | 7MF15644BB003EA1 | 7MF15644BB103EA1 | QBE620-P1 | QBE2000-P1 |
| 0-30 psi | 7MF15654BE005EA1 | 7MF15654BE105EA1 | 7MF15644BE003EA1 | 7MF15644BE103EA1 | N/A | N/A |
| 0-60 psi | 7MF15654BF005EA1 | 7MF15654BF105EA1 | 7MF15644BF003EA1 | 7MF15644BF103EA1 | N/A | QBE2000-P4 |
| 0-74 psi | N/A | N/A | N/A | N/A | QBE620-P5 | N/A |
| 0-100 psi | 7MF15654BG005EA1 | N/A | N/A | N/A | N/A | N/A |
| 0-150 psi | 7MF15654CA005EA1 | 7MF15654CA105EA1 | 7MF15644CA003EA1 | 7MF15644CA103EA1 | QBE620-P10 | QBE2000-P10 |
| 0-200 psi | 7MF15654CB005EA1 | 7MF15654CB105EA1 | 7MF15644CB003EA1 | 7MF15644CB103EA1 | N/A | N/A |
| 0-235 psi | N/A | N/A | N/A | N/A | QBE620-P16 | QBE2000-P16 |
| 0-300 psi | 7MF15654CD005EA1 | 7MF15654CD105EA1 | 7MF15644CD003EA1 | 7MF15644CD103EA1 | N/A | QBE2000-P20 |
| 0-362 psi | N/A | N/A | N/A | N/A | QBE620-P25 | N/A |
| 0-500 psi | 7MF15654CE005EA1 | 7MF15654CE105EA1 | 7MF15644CE003EA1 | 7MF15644CE103EA1 | N/A | N/A |
| 0-588 psi | N/A | N/A | N/A | N/A | QBE620-P40 | QBE2000-P40 |

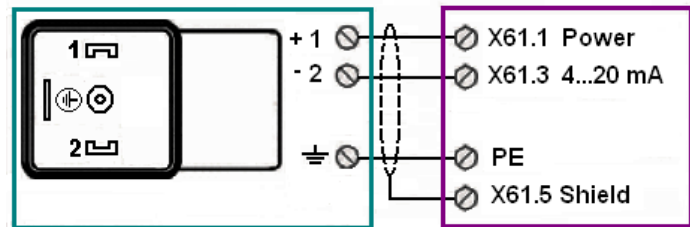
Schematics



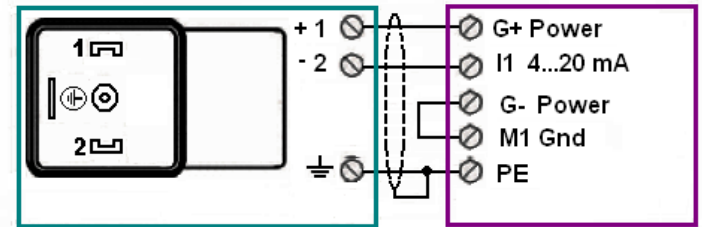
0...10 VDC 7MF156x 0...10 VDC LMV5...



0...10 VDC 7MF156x 0...10 VDC RWF40...



4...20 mA 7MF156x 4...20 mA LMV5...



4...20 mA 7MF156x 4...20 mA RWF40...