

# 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)

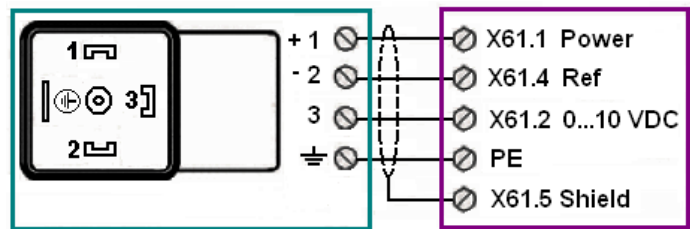
**x** one number specifies output signal

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

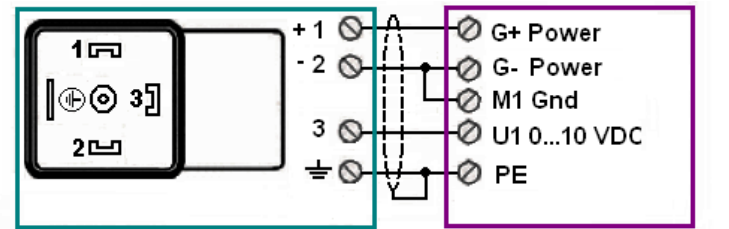
**1** = 0...10 VDC

| Pressure Range | 4...20 mA<br>7MF1565 | 0...10 Vdc<br>7MF1565 | 4...20 mA<br>Obsolete<br>7MF1564 | 0...10 Vdc<br>Obsolete<br>7MF1564 | 0...10 Vdc<br>Obsolete<br>QBE620 | 0...10 Vdc<br>Obsolete<br>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                       |

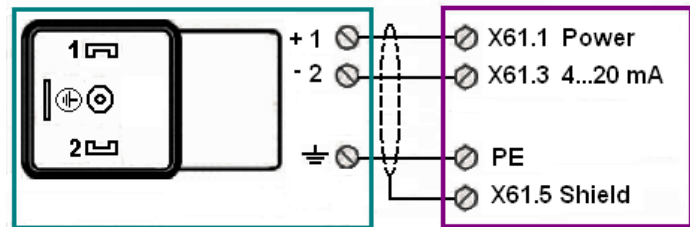
## Schematics



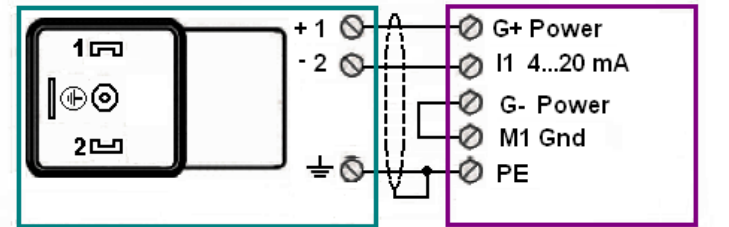
0...10 VDC 7MF156x 0...10 VDC LMV5...



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



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



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