



Pressure transmitter technical and selection data

Technical Data

| Parameter | Unit | Specification |
|--|-----------|---|
| overload pressure | %fs | 200 |
| burst pressure | %fs | 300 |
| conditioned-signal output | | 0.5~4.5 Vdc ratiometric, 4~20mA, I2C |
| zero offset | mV | ≤±0.5 |
| long-term stability | %fs/1000h | ≤±0.4(@70℃) |
| bridge resistance | kΩ | 11±20% |
| insulation resistance | MΩ | ≥200@50Vdc |
| operating temperature range | ℃ | -20~+85 |
| storage temperature range | ℃ | -40~+125 |
| temperature coefficient of zero offset | %fs/℃ | ≤±0.03 |
| life time | cycles | 10 ⁸ |
| response time | ms | ≤1 |
| pressure diaphragm | | ceramic |

Selection data

| | Measuring range | | Mechanical interface material | | Mechanical interface | | Electrical interface | | Output | |
|------|-----------------|----------|-------------------------------|------------|----------------------|-------------------------------|----------------------|-------------------------|--------|----------|
| | Code | Range | Port | Material | Port | Thread | Port | Interface | Port | Output |
| RBPT | 002 | 0-2bar | 1 | 304SS | 01 | M14-1.5 | 1 | aviation plug GX12-3 | 1 | 0.5-4.5V |
| | 005 | 0-5bar | 2 | 316SS | 02 | M16-1.5 | 2 | Hirschmann DIN436850 | 2 | 4-20mA |
| | 010 | 0-10bar | 3 | 62%Cu | 03 | M18-1.5 | 3 | Packard#1206 5287 | 3 | 1-5V |
| | 016 | 0-16bar | 4 | 6061-T6 | 04 | NPTF1/8-27 | 4 | wires 500mm | 4 | 0-10V |
| | 017 | 0-17bar | 5 | POM | 05 | NPTF1/4-18 | 5 | wires 1000mm | 5 | 0-5V |
| | 020 | 0-20bar | 6 | PTFE | 06 | NPTF1/2-14 | 6 | customization | | |
| | 025 | 0-25bar | 7 | PA66+25%GF | 07 | G1/8 | | | | |
| | 030 | 0-30bar | 8 | ETFE | 08 | G1/4 | | | | |
| | 046 | 0-46bar | | | 09 | G1/2 | | | | |
| | 050 | 0-50bar | | | 10 | 7-16*20UNF Internal thread | | | | |
| | 100 | 0-100bar | | | 11 | NPT3/8 Internal thread | | | | |
| | 200 | 0-200bar | | | 12 | R1/4 | | | | |
| | 300 | 0-300bar | | | 13 | M12*1.5 | | | | |
| | 400 | 0-400bar | | | 14 | M12*1 | | | | |
| | 250 | 0-25Mpa | | | 15 | customization | | | | |

We use code RBPT-002-1-01-1-1 to represent pressure transmitter with 0-2bar measuring range, M14-1.5 mechanical interface made of 304ss, aviation plug electrical interface and 0.5-4.5V output.