

APD/APDV Pressure/Vacuum Transmitter with LED Display (4~20mA, G1/4)

The APD range of 4~20mA high accuracy, low cost ceramic* pressure transmitters are designed for use in most industrial applications and are suitable for the measurement of most pressure mediums.

The transmitters have an integral bright red LED display with 4-digits each 9mm (0.36") high.

The transmitters incorporate a high quality thick-film ceramic* sensor and special amplified circuit. Output is configured to 4~20mA current loop.

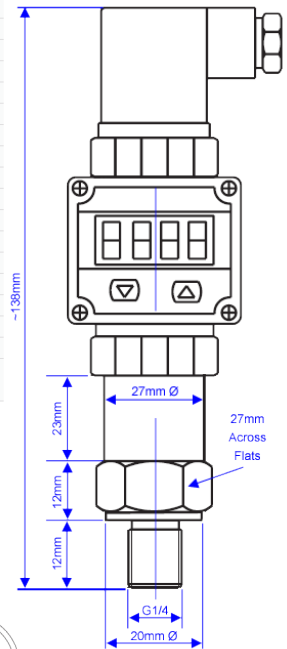
The pressure diaphragm is made from ceramic* material and its wetted parts are made from 316L stainless steel.

Because of the thermal stability of ceramic and its thick-film resistance, the transmitter can be operated at a higher temperature range; at the same time, this also makes the zero and sensitivity thermal shifts over the whole operating temperature range of the transmitter very small.

- Integral 4-digit display, bright red LED
- G1/4 - 1/4" BSP(M) process connection
- Digit height 9mm (0.36")
- 4~20mA current loop output signal
- Pressure and vacuum options
- Vast pressure measurement range
- Wide application scope and long service life
- High accuracy and long-term stability
- Good anti-corrosion and anti-impact ability
- Available ranges from -1 to +100 bar
- IP65 rated



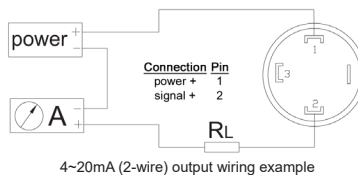
| Technical Details | |
|--|---|
| Pressure Medium | Gas or liquid compatible with ceramic and stainless steel |
| Pressure Range | -1 ... 100 bar |
| Overload Pressure / Burst Pressure | 150%FS / 200%FS |
| Output Signal | 4~20mA Current Loop (2-wire) |
| Accuracy | 0.5%FS |
| Load Resistance | RL = (U - 12V) / 0.02A |
| Long-Term Stability | < 0.2%FS/year |
| Supply Voltage | 9~32VDC |
| Compensated Temperature Range | -10~70°C |
| Operating/Storage Temperature Range | -30°C to +80°C / -40°C to +100°C |
| Temperature Coefficient Of Zero | 0.25%FS/10°C |
| Temperature Coefficient Of Span | 0.25%FS/10°C |
| Insulation Resistance | 100MΩ@50VDC |
| Process Connection | G1/4 - 1/4" BSP(M) |
| Electrical Connection | Hirschmann style connector |
| Material of Wetted Part | 1Cr18Ni9Ti |
| Material of Pressure Membrane | Ceramic |
| Material of Housing | 1Cr18Ni9Ti |
| Sealing | N-Butyrylonitrile or Fluoro-Rubber Sealing Ring |
| Ingress Protection Rating | IP65 |



| type | range (bar) | order code |
|----------|-------------|------------|
| Pressure | 0 to 1.0 | APD-0010 |
| Pressure | 0 to 1.6 | APD-0016 |
| Pressure | 0 to 2.5 | APD-0025 |
| Pressure | 0 to 4.0 | APD-0040 |
| Pressure | 0 to 6.0 | APD-0060 |
| Pressure | 0 to 10.0 | APD-0100 |
| Pressure | 0 to 16.0 | APD-0160 |
| Pressure | 0 to 25.0 | APD-0250 |
| Pressure | 0 to 40.0 | APD-0400 |
| Pressure | 0 to 60.0 | APD-0600 |
| Pressure | 0 to 100.0 | APD-1000 |
| Vacuum | -1 to 0.0 * | APDV-0000 |
| Vacuum | -1 to 1.5 | APDV-0015 |
| Vacuum | -1 to 2.5 | APDV-0025 |
| Vacuum | -1 to 6.0 | APDV-0060 |



Main body terminals



* for the range -1...+0 bar a silicon pressure element will be supplied

