

## 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.

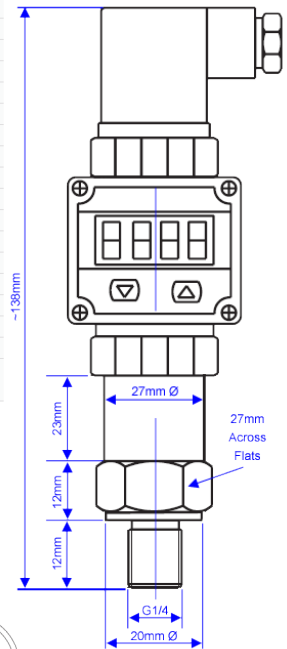
The transmitters incorporate a high quality thick-film ceramic\* sensor and special amplified circuit. Output is configured to 4~20mA current loop. The pressure diaphragm is made from ceramic\* material and its wetted parts are made from 316L stainless steel.

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



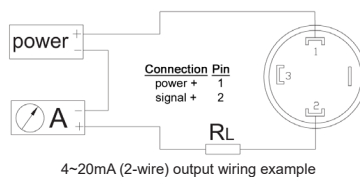
Technical Details	
<b>Pressure Medium</b>	Gas or liquid compatible with ceramic and stainless steel
<b>Pressure Range</b>	-1 ... 100 bar
<b>Overload Pressure / Burst Pressure</b>	150%FS / 200%FS
<b>Output Signal</b>	4~20mA Current Loop (2-wire)
<b>Accuracy</b>	0.5%FS
<b>Load Resistance</b>	RL = (U - 12V) / 0.02A
<b>Long-Term Stability</b>	< 0.2%FS/year
<b>Supply Voltage</b>	12~36VDC
<b>Compensated Temperature Range</b>	-10~70°C
<b>Operating/Storage Temperature Range</b>	-30°C to +80°C / -40°C to +100°C
<b>Temperature Coefficient Of Zero</b>	0.25%FS/10°C
<b>Temperature Coefficient Of Span</b>	0.25%FS/10°C
<b>Insulation Resistance</b>	100MΩ@50VDC
<b>Process Connection</b>	G1/4 - 1/4" BSP(M)
<b>Electrical Connection</b>	Hirschmann style connector
<b>Material of Wetted Part</b>	1Cr18Ni9Ti
<b>Material of Pressure Membrane</b>	Ceramic
<b>Material of Housing</b>	1Cr18Ni9Ti
<b>Sealing</b>	N-Butyrylonitrile or Fluoro-Rubber Sealing Ring
<b>Ingress Protection Rating</b>	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



4~20mA (2-wire) output wiring example

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