



bar

APR3202

Low Range Differential Pressure Transmitter

FEATURES

- Wide range of low pressure ranges
- from 0-5 mbar
- Available for gauge reference or
- bi-directional measurement
- Durable designs for industrial and
- commercial installations
- ATEX/IECEX option available



SPECIFICATIONS

The APR3202 low range air differential pressure transmitter provides an accurate solution for low pressure sensing. Incorporating the latest silicon sensor and electronics technologies, these 4-20 mA transmitters are fully temperature compensated for unrivalled stability at very low pressure. Ranges available from 0-5 mbar to 0-1000 mbar in DP Gauge reference or Bi-directional.

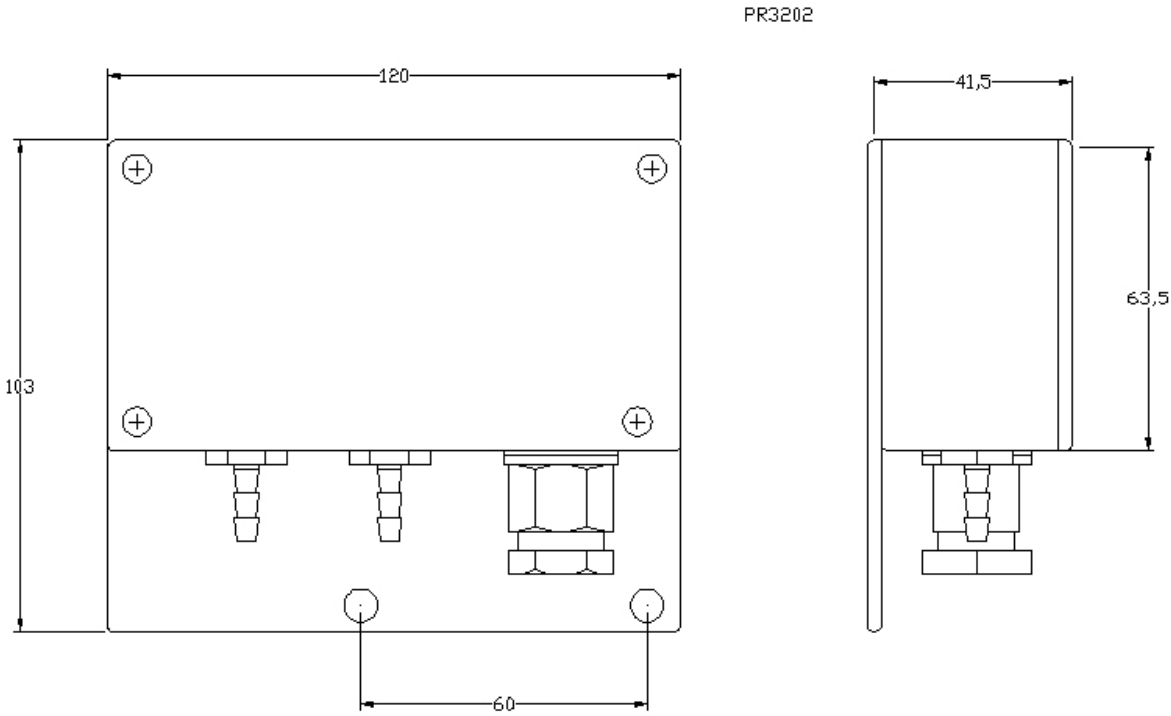
ATEX and IECEX approval and protection by intrinsic safety is optional and intended for installation and operation in zone 0, gas group IIC, temperature class T4 and zone 20 dust.

Typical applications include:

- Combustion chambers
- Clean rooms
- Any application on air or gas requiring reliable ultra-low differential



DIMENSIONS (in mm)



ELECTRICAL CONNECTIONS

PIN No.	mA (2 wire)
1	+supply
2	4-20mA signal
3	N/C
↓	to case



TECHNICAL DATA

Type	APR3202	APR3203	APR3204
Sensor Technology:	Piezoresistive Silicon		
Output Signal:	4-20 mA (2 wire)	0-5 V (3 wire)	0-10 V (3 wire)
Supply Voltage:	10-36 VDC	13-30 VDC	13-30 VDC
Pressure Reference:	Differential		
Protection of Supply Voltage:	Protected against supply voltage reversal up to 50 V		
Standard Pressure Ranges (mbar):	0-5 mbar; 0-10 mbar; 0-20 mbar; 0-50 mbar; 0-100 mbar; 0-250 mbar; 0-500 mbar; 0-1,000 mbar (other options available)		
Standard Pressure Ranges (psi):	0-2 inH ₂ O; 0-4 inH ₂ O; 0-8 inH ₂ O; 0-10 inH ₂ O; 0-12 inH ₂ O; 0-20 inH ₂ O; 0-1 psi; 0-1.5 psi; 0-3 psi; 0-4 psi; 0-7.5 psi; 0-15 psi (other options available)		
Overpressure Safety:	25 mbar max. for ranges 0-5 mbar to 0-10 mbar; 200 mbar max. for ranges 0-20 mbar to 0-100 mbar; 1,200 mbar max. for ranges 0-150 mbar to 0-1,000 mbar		
Common Mode (Static line pressure):	375 mbar equal to both ports for ranges 0-5 to 0-10 mbar; 2 bar max. equal to both ports for ranges 0-20 mbar to 0-1,000 mbar		
Load driving Capability:	4-20 mA: $RL < [UB - 13 V] / 20 \text{ mA}$ (e.g. with supply voltage (UB) of 36 V, max. load (RL) is 1150 Ω)		
Accuracy NLHR:	< +0.3 % of span BFLS		
Zero Offset & Span Tolerance:	+1.0 %FS at room temperature +5 %FS (approx.) adjustment via trimming potentiometers located beneath the enclosure lid		
Operating Ambient Temperature:	-20C to +70C (-4F + 158F)		
Operating Media Temperature:	-20C to +70C (-4F to 158F)		
Storage Temperature:	+5C to +40C (+41F to +104F) Recommended Best Practice		
Temperature Effects:	$\pm 2.0\%$ FS total error band for -20 °C to +70 °C. Typical thermal zero and span coefficients $\pm 0.04\%$ FS/ °C		
ATEX/IECEX Approval (4-20 mA version only):	EX II 1 G Ex ia IICT4 GA (Zone 0) Ex II 1 D Ex ia IIIC T135 C Da (Zone 20)		n/a
ATEX/IECEX Safety Values:	Ui = 28 V / Li = 119mA / Pi = 0.65 W / Li = 0.1 pH / Ci = 74 nF. Temperature Range = -20C to +70C. Max. cable length = 45m		n/a
Electromagnetic Compatibility:	Emissions: EN61000-6-3; Immunity: EN61000-6-2; Certification: CE Marked		
Insulation Resistance:	> 100 M @ 50 VDC		
Response Time 10-90%	1 mS		
Wetted Parts:	Nickel plated brass, silicone tubing, silicon diaphragm, glass filled polyamide		
Pressure Media:	Non-corrosive media such as non-ionic fluids, air and dry gases		
Pressure Connection:	4 mm I.D. hose (other options available)		
Electrical Connection:	Screw terminals for conductor sizes 0.2-2 mm ² are located beneath the enclosure lid.		
Net. Weight:	0.3 Kg		



ORDER MATRIX

Output	Wires	Type	Electrical Connection/Options	Pressure Range	Process Connection
4-20 mA	2	APR3202			
0-5 V	3	APR3203			
0-10 V	3	APR3204			
Electrical Connections/Options					
DIN EN175301 plug and socket					
ATEX/IECEX certified					
Alluminium Enclosure					
Pressure Range in bar					
0-5 mbar					
0-50 mbar					
0-100 mbar					
0-500 mbar					
Process Connection					
4.8mm tube connection (push-on-stem)					
1/4" BSP male (G1/4)					

Order Number Example	APR3202EX0005AW
----------------------	-----------------

For options not listed please contact the sales team

DISCLAIMER: We reserve the right to change specifications without prior notice. specifications without prior notice. All manufactured products are calibrated with precision calibration equipment that is traceable to national measurement standards.