PROTRAN© PR3202

Low Range Differential Pressure Transmitter

- 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

RoHS 2011/65/EU

Vers. 25/1/Eng

Suco GROUP

CE | UKCA

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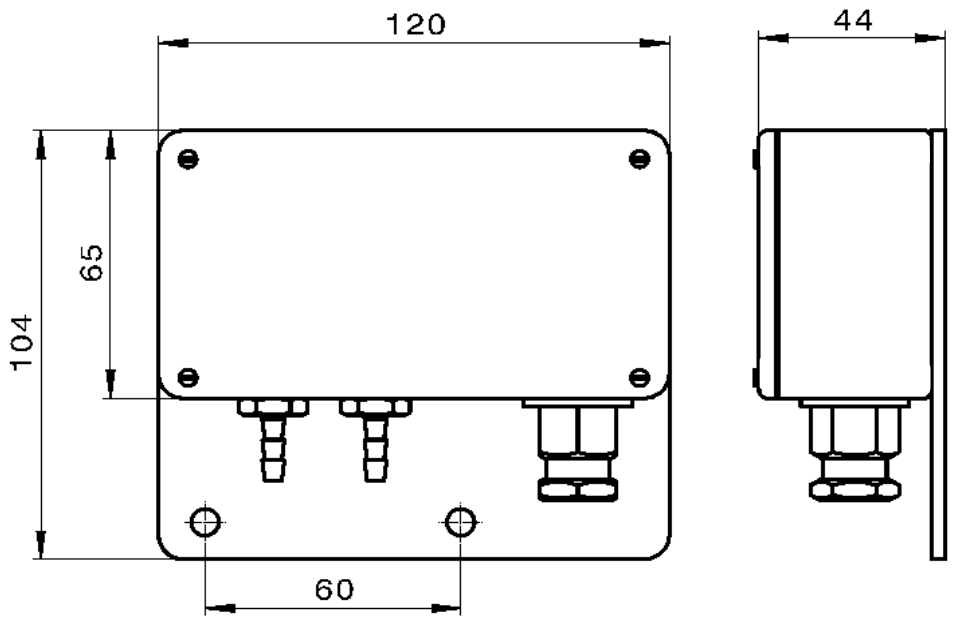
Specifications

The PROTRAN PR3202 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	mA (2 wire)
1	+supply
2	4-20mA signal
3	N/C
⏚	to case

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Technical Data

Type	PR3202	PR3203	PR3204
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 inH2O; 0-4 inH2O; 0-8 inH2O; 0-10 inH2O; 0-12 inH2O; 0-20 InH2O; 0-1 psi; 0-1.5 psi; 0-3 psi; 0-4 psi; 0-7.5 psi; 0-15 psi (other options avialable)		
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; 1200 mbar max. for ranges 0-150 mbar to 0-1000 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 0-1000 mbar		
Load driving Capability:	**4-20 mA:** RL < [UB - 13 V] / 20 mA (e.g. with supply voltage (UB) of 36 V, max. load (RL) is 1150 Ω)		
Accuracy NLHR:	≤ ±0.3 % of span BFSL		
Zero Offset & Span Tolerance:	±1.0 %FS at room temperature ±5 %FS (approx.) adjustment via trimming potentionmeters located beneath the enclosure lid		
Operating Ambient Temperature:	-20°C to +70°C (-4°F + 158°F)		
Operating Media Temperature:	-20°C to +70°C (-4°F to 158°F)		
Storage Temperature:	+5°C to +40°C (+41°F to +104°F) Recommended Best Practice		
Temperature Effects:	±2.0% FS total error band for -20°C to +70°C. Typical thermal zero and span coefficients ±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 Campatibility:	Emissions: EN61000-6-3; Immunity: EN61000-6-2; Certification: CE/UKCA Marked		
Insulation Resistance:	> 100 MΩ @ 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		

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Order Matrix

Output	Wires	Type	Electrical Connection/Options	Pressure Range	Process Connection
4-20 mA	**2**	PR3202			
0-5 V	**3**	PR3203			
0-10 V	**3**	PR3204			

Electrical Connections/Options	
DIN EN175301 plug and socket	-
ATEX/IECEx certified	EX
Alluminium Enclosure	AL

Pressure Range in bar	
0-5 mbar	0005
0-50 mbar	0050
0-100 mbar	0100
0-500 mbar	0500

Process Connection	
4.8mm tude connection (push-on-stem)	AW
1/4" BSP male (G1/4)	AB

Order Number Example	PR3202EX0005AW

For options not listed please contact the sales team

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