



# Protran PR3202 Ultra Low

Very Low Range Differential Pressure  
Transmitter



- Ultra low pressure ranges from 0-0.25 mbar to 0-2.5 mbar DP
- Available for gauge reference or bi-directional measurement
- Durable designs for industrial and commercial installations
- IP65 rated housing





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## Description

The PR3202 Ultra Low differential pressure transmitter sense gauge (static) or differential pressure in air pressure ranges as low as 0.25 mbar.

The gauge pressure transmitter is offered with 4 to 20 mA output or high level voltage and is available with a static pressure probe for installation directly onto the duct. The 0.25" diameter pressure probe is made of sturdy extruded aluminium and is designed with baffles to prevent velocity pressure errors.

Typical applications include heating, ventilation and air conditioning systems (HVAC), energy management systems, static duct pressure, clean room pressure and any application measuring air or similar non-conducting gases.



## Dimensions (in mm)





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### Technical Data

Type:	PR3202		
Sensor Technology:	Stainless steel capacitive sensing element		
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:	Unidirectional Ranges: 0-0.25 mbar; 0-0.5 mbar; 0-1 mbar; 0-2.5 mbar; Bidirectional Ranges: $\pm 0.25$ mbar; $\pm 0.5$ mbar; $\pm 1$ mbar; $\pm 2.5$ mbar		
Overpressure Safety:	Up to 10 psi (range dependant)		
Common Mode (Static line pressure)	10 psi (Max.)		
Load Driving Capability:	4-20 mA: $RL < [UB - 9 V] / 20 \text{ mA}$ ; 0-5 V: max. load $RL > 5 \text{ K}\Omega$ ; 0-10 V: max. load $RL > 10 \text{ K}\Omega$		
Accuracy NLHR:	$\pm 1.0$ % of span		
Zero Offset and Span Tolerance:	$\pm 0.16 \text{ mA}$ , $\pm 50 \text{ mV}$ (factory calibrated at 0g effect in the vertical position, adjustment inside with trimming potentiometers)		
Operating Ambient Temperature:	$-18^\circ\text{C}$ - $+65^\circ\text{C}$ ( $-0.4^\circ\text{F}$ to $+149^\circ\text{F}$ )		
Operating Media Temperature:	$-18^\circ\text{C}$ - $+65^\circ\text{C}$ ( $-0.4^\circ\text{F}$ to $+149^\circ\text{F}$ )		
Storage Temperature:	$+5^\circ\text{C}$ to $+40^\circ\text{C}$ ( $+41^\circ\text{F}$ to $+104^\circ\text{F}$ ) Recommended Best Practice		
Temperature Effects:	$\pm 0.06$ %FS/ $^\circ\text{C}$ , $+5$ to $+65^\circ\text{C}$ ( $\pm 0.033$ %FS/ $^\circ\text{F}$ , $+40$ to $+150^\circ\text{F}$ )		
Electromagnetic Capability:	Certification: CE Marked		
Response time 10-90 %:	20 mS		
Pressure Media:	Air or other neutral gases		
Pressure Connection:	3/16" O.D. barbed brass for 1/4" push on tubing (standard)		
Electrical Connection:	Screw terminal strip inside of case; PG-9/PG13.5 strain relief, 1/2" conduit opening		

**DISCLAIMER :** ESI Technology Ltd operates a policy of continuous product development. We reserve the right to change specification without prior notice. All products manufactured by ESI Technology Ltd are calibrated using precision calibration equipment with traceability to international standards.



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