

- ACCURATE AT VERY WIDE DP RANGE
- HIGH STABILITY and REPEATABILITY
- WET/WET OPERATION
- 4-20mATWO-WIREOUTPUT
- ZERO + SPAN ADJUSTMENT ON-SITE
- RANGES 250mbarDP to 200barDP
- UNI + BI-DIRECTIONAL OPERATION

DESCRIPTION

The PR3200 Differential Pressure Transmitter uses two matched ceramic pressure diaphragms, offering high stability and performance with true wet/wet operation, suitable for use with all liquids and gasses compatible with stainless steel and alumina. Flush diaphragm models are available with integral or remote pressure diaphragms for hygienic applications.

Applications include flow measurement with pitot tubes, orifice plates and mass flow meters, plus static differential pressure measurement and control in combustion chambers and clean rooms, also condition monitoring and filter monitoring in high pressure hydraulic systems or any application on liquid or gas requiring reliable differential pressure measurement.

Electrical connection is DIN plug and socket, access to zero and span adjustment is made by removing top plate for easy on-site adjustment.

Pressure connection as standard is via two $\frac{1}{4}$ "BSP female connections.

Mounting Plate available for stand-pipe or bulk-head mounting.

Ranges available from 0-250mbarDP to 0-200barDP.

Tel: 01978 262255



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PROTRAN PR3200 DIFFERENTIAL PRESSURE TRANSMITTER

SPECIFICATION

Pressure ranges	0-250 mbarDP
ŭ	to 0-200 barDP
Pressure reference	Differential
Operation mode	Uni or Bi-directional
Static pressure max	4 x range (max)
Common mode pressure	4 x range (max)

OUTPUT

Span	1-20	mΑ
Type		

ACCURACY

Zero offset	<±1% FSO
Span tolerance	<±1% FSO
Combined non-linearity / hysteres	is <±0.3% FSO
Repeatability	<±0.1% FSO
Long term stability	<±0.2% FSO / 6 months
Common mode pressure error	<±2% / 4 x DP range

ELECTRICAL

Supply	voltage.		 .13-36Vdc
Supply	voltage	effects	 .3uA/V

Reverse polarity	Protected
Load driving capability	
Output short circuit (to ground	d) No damage
Insulation resistance	100MQ @ 100Vdc elec conn

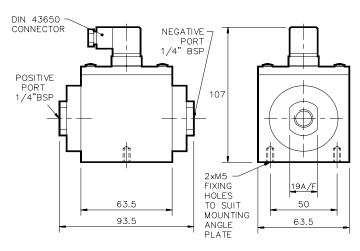
Response time (63%)..... 1.5mS Adjustment..... ±10%FSO Zero and Span

ENVIRONMENTAL

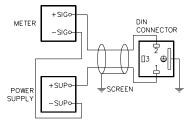
Pressure media	Compatible with alumina +304 S.S
Operating temperature range	-20 to +85 °C
Storage temperature range	-40 to +90°C
Thermal effect Zero	<±0.03% FSO/°C
Thermal sensistivity	<±0.03% FSO/°C
Vibration tolerance	10g's to 50Hz
Mechanical shock tolerance	15g@s (11mS)
Operating humidity	95% RH

PHYSICAL	
Pressure connections	1/4" BSP female x 2
Electrical connection	DIN plug + socket to DIN43650
Mounting	Via mounting plate (optional extra)
Enclosure rating	IP65
Natural frequency	10 Khz (min)
Weight	780 grams
Materials	300 series stain'stl body/
	connector alumina dianhragm

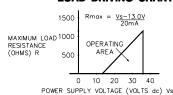
DIMENSIONS / WIRING DETAILS



TRANSMITTER WIRING DIAGRAM



LOAD DRIVING CHART



ORDERING INFORMATION

STATE MODEL NUMBER AND PRESSURE RANGE REQUIRED:ie: PR3200 0-10mbarDP

MODEL NO.	DESCRIPTION	
PR3200	DP Transmitter 0-250mbar to 0-200 bar	
PR3200/MP	Mounting Angle Plate	

D.P. PRESSURE RANGES

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