



- **HIGH STABILITY CERAMIC SENSOR**
- **SUPPLY VOLTAGE 13 - 36Vdc**
- **4-20mA TWO-WIRE OUTPUT**
- **ZERO + SPAN ADJUSTMENT ON-SITE**
- **RANGES 500mbar to 400bar**
- **DIN RAIL MOUNTABLE DIN 46277-1**
- **PROTECTED TO IP65**
-  **INTRINSICALLY SAFE MODELS**

DESCRIPTION

The PR3000 pressure transmitter incorporates the highly stable ceramic thick film pressure diaphragm, with a unique high performance amplifier to give excellent reliability over a long service life.

DIN Rail or bulkhead mountable, the transmitter is protected to IP65.

Applications include the static and dynamic measurement of liquids or gases for measurement and control applications. The DIN Rail mounting facility offers ideal use in control panels for pneumatic, hydraulic, H.V.A.C. or industrial process applications

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 a 1/4" BSP female connection.

Ranges available from 0-500mbar to 0-400bar.

SPECIFICATION

INPUT

Pressure ranges 0-500 mbar to 0-400 bar
Pressure reference Gauge or Absolute
Over pressure 2 x Rated pressure

OUTPUT

Span 4-20 mA
Type 2 wire

ACCURACY

Zero offset $\leq \pm 1\%$ FSO
Span tolerance $\leq \pm 1\%$ FSO
Combined non-linearity / hysteresis $\leq \pm 0.25\%$ FSO
Repeatability $\leq \pm 0.1\%$ FSO
Long term stability $\leq \pm 0.2\%$ FSO / 6 months

ELECTRICAL

Supply voltage 13-36Vdc
Supply voltage effects $3\mu A/V$
Reverse polarity Protected

Load driving capability 150Ω @ 36Vdc
Output short circuit (to ground) No damage
Insulation resistance $100M\Omega$ @ 100Vdc elec conn to case
Response time (63%) 1.5mS
Adjustment $\pm 10\%$ FSO Zero and Span

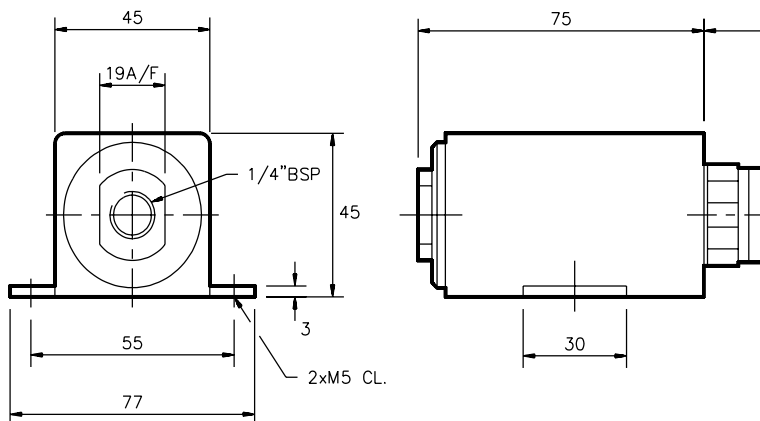
ENVIRONMENTAL

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 $\leq \pm 0.03\%$ FSO/°C
Thermal sensitivity $\leq \pm 0.03\%$ FSO/°C
Vibration tolerance 10g's to 50Hz
Mechanical shock tolerance 15g@s (11mS)
Operating humidity 95% RH

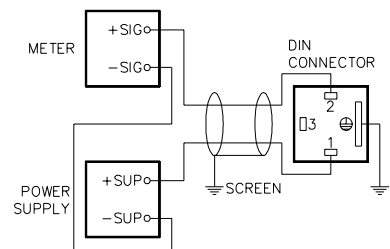
PHYSICAL

Pressure connection 1/4" BSP female
Electrical connection DIN plug + socket to DIN43650
Mounting DIN Rail mounting to DIN46277-1
Enclosure rating IP65
Natural frequency 12 KHz (min)
Weight 375 grams
Materials 300 series stain/stl body/Connector alumina diaphragm

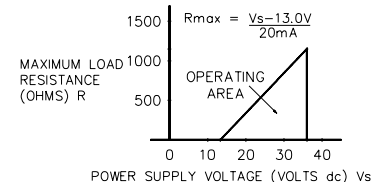
DIMENSIONS / WIRING DETAILS



TRANSMITTER WIRING DIAGRAM



LOAD DRIVING CHART



ORDERING INFORMATION

STATE MODEL NUMBER AND PRESSURE RANGE REQUIRED:-
i.e. PR3000 0-10bar

MODEL NO.	DESCRIPTION
PR3000 bar	Transmitter 0-500 mbar to 0-400

PRESSURE RANGES

-1 - 0 bar Vac	0 - 16 bar
0 - 500 mbar	0 - 25 bar
0 - 1 bar	0 - 40 bar
0 - 1.6 bar	0 - 60 bar
0 - 2.5 bar	0 - 100 bar
0 - 4 bar	0 - 160 bar
0 - 6 bar	0 - 250 bar
0 - 10 bar	0 - 400 bar

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