

P6420-57 Abrasive Material Pressure Transmitter

The P6420-57 is a pressure transducer having a two wire, 4-20mA output. It is available in standard ranges from 5 bar to 50 bar, or may be scaled to customer requirements.

DESCRIPTION

The P6420-57 pressure transducer is based on a four active arm strain gauge bridge fused to a high purity ceramic diaphragm, offering high natural output coupled with superb chemical and corrosion resistance. It has been designed primarily for use with concrete slurry and other abrasive fluids and has a cavity free, flush sensing diaphragm covered by a flexible polypropylene shield.

It offers a two wire, 4-20mA output proportional to fluid pressure with other outputs available as options. The sensing element and its associated electronics are housed in a rugged stainless steel case.

FEATURES

- Superb chemical and corrosion resistance
- 4-20mA, two wire operation (option 5-21mA)
- Unrivalled abrasion resistance
- Wide temperature range
- High electrical isolation
- Rugged construction
- Excellent long term stability

APPLICATIONS

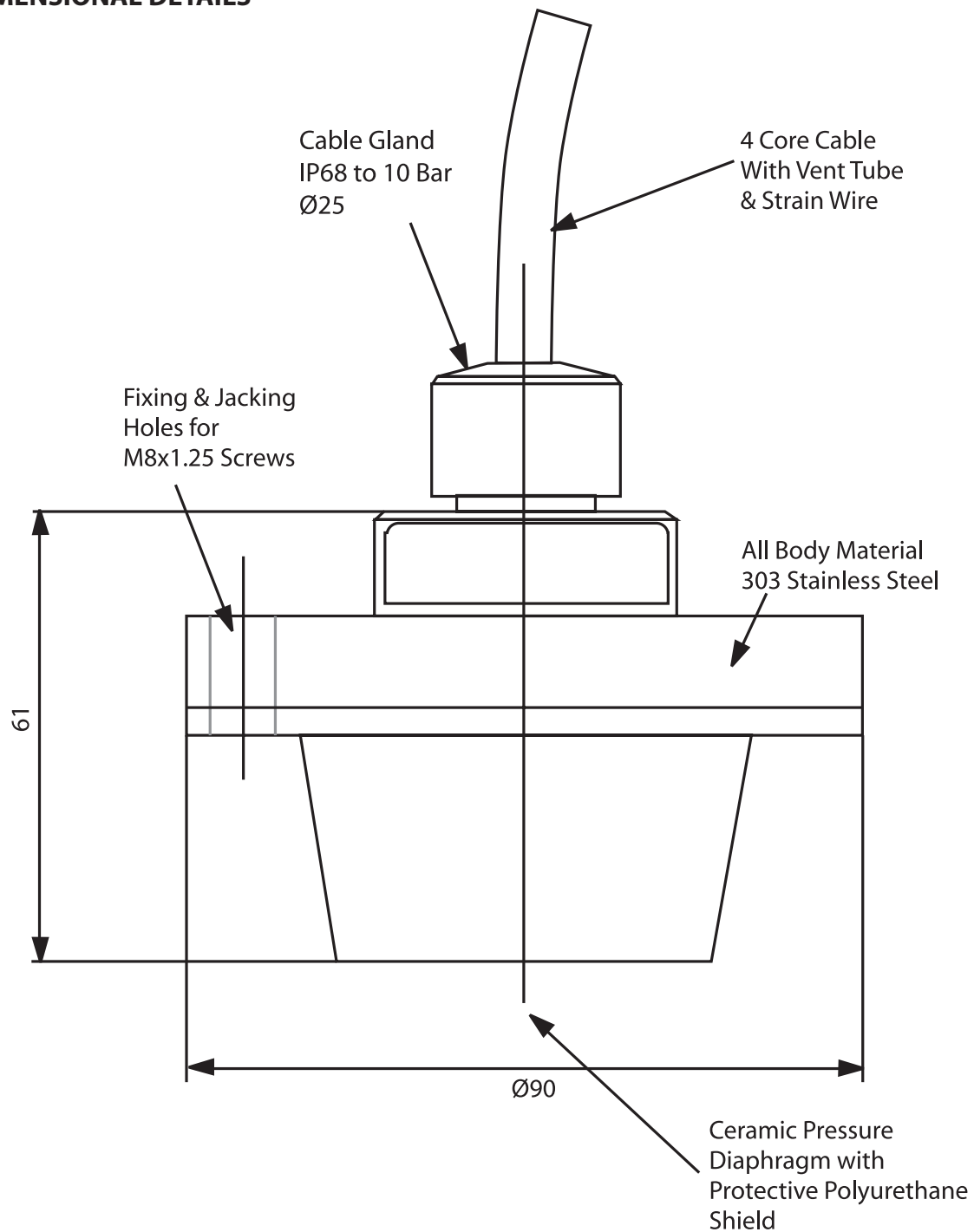
- Concrete pumping & other abrasive applications
- Gypsum
- Brick Dust
- Clay

SPECIFICATION

Pressure Range	5,10,20, & 50 bar SG and G
Excitation	10-32Vdc unregulated
Output	Span 16mA \pm 1% of span at pressure Zero 4mA \pm 1% of span at zero pressure
Non Linearity, Hysteresis & Repeatability (NLH)	< \pm 1% of span (best fit straight line)
Operating Temp Range	-25°C to +100°C
Safe Over-range	1.5 times rated range
Burst Pressure	3 times rated range minimum
Insulation Resistance	>500M Ω at 500Vdc, over the operable temperature range
Loading Driving	1k Ω @ 28Vdc supply
Environmental Protection	IP68
Electrical Connections	Cable



DIMENSIONAL DETAILS



Every effort has been made during the preparation of this document to ensure the accuracy of statements and specifications. However, we do not accept liability for damage, injury, loss or expense caused by errors or omissions made. We reserve the right to withdraw or amend products or documentation without notice.

Head Office: 2 Downgate Drive, Sheffield, S4 8BT, England
Tel: +44(0)114 244 2521 Fax: +44(0)114 243 4838



RM&C Roxspur
Measurement
& Control Ltd

1-4 Campbell Court, Bramley, Tadley, Hampshire, RG26 5EG, England

Tel: +44(0)1256 884901 Fax: +44(0)1256 882986

email: sales@roxspur.com www.roxspur.com



CERTIFICATE No. FM22358