

## M6420-92 Flush Mounted Transmitter

The M6420-92 is ideal for applications where the sensing element has to be in direct contact with the media. This enables measurement of medias that contain particles or are liable to congeal.

### DESCRIPTION

The M6420-92 pressure transmitter 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 a two wire, 4-20mA output proportional to pressure and is fully CE compliant. The sensing element and its associated electronics are housed in a rugged stainless steel case. It has a M24 x 2 threaded pressure fitting and a flush mounted sensor, sealed via an O-ring.

### FEATURES

- Superb chemical and corrosion resistance
- 4-20mA, two wire output
- Excellent linearity
- Wide temperature range
- High electrical isolation
- Rugged construction
- Excellent long term stability
- Temperature compensated

### APPLICATIONS

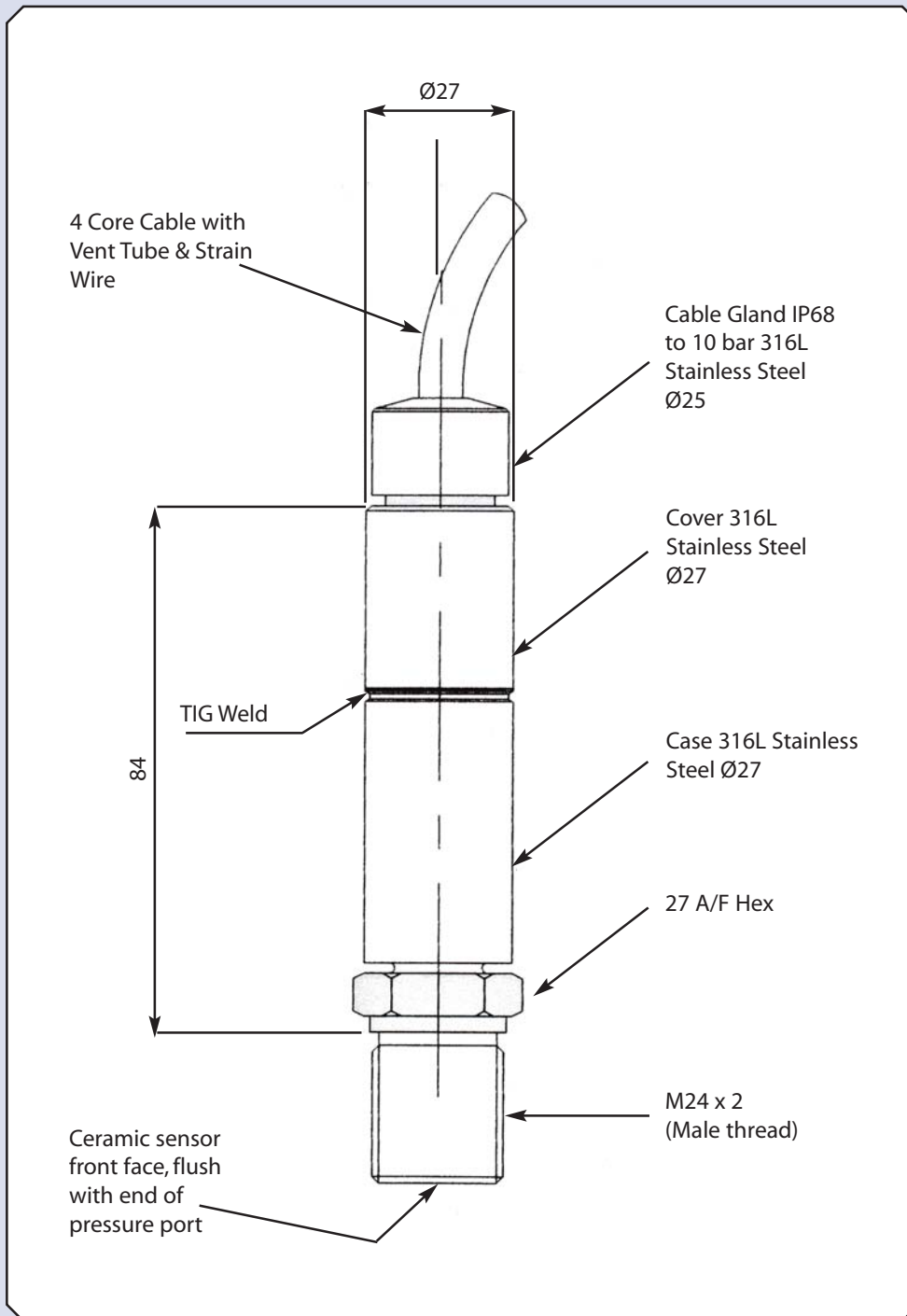
- Water level/pressure
- Data logging
- Chemical processing
- Soil mechanics
- Load measurement
- Automotive
- Printing,
- Medical engineering
- Air compressors
- Gas flow
- Pneumatic controls
- Central heating
- Hydraulic machinery
- Air conditioning
- Tank contents
- Crop spraying
- Paper processing

### SPECIFICATION

<b>Pressure Ranges</b>	1, 2, 3, 5, 10, 20 & 50 bar gauge or absolute. Other ranges available
<b>Excitation</b>	10-32Vdc unregulated
<b>Output Span</b>	16mA ±1%
<b>Output Zero</b>	4mA ±1% of span
<b>Non Linearity, Hysteresis &amp; Repeatability (NLH)</b>	<±0.25% span (best fit straight line)
<b>Compensated Temp Range</b>	-10°C to 80°C
<b>Operating Temp Range</b>	-25°C to 120°C
<b>Thermal Zero Shift</b>	<±0.015% span / °C
<b>Thermal Span Shift</b>	<±0.015% reading / °C
<b>Safe Over-range</b>	1.5 x rated range minimum
<b>Burst Pressure</b>	3 x rated range minimum For 50 bar transmitter, burst pressure 2 x rated range
<b>Pressure Connection</b>	M24 x 2
<b>Insulation Resistance</b>	>500M Ω at 500Vdc, over the operable temperature range
<b>Load Driving</b>	1k Ω @ 28Vdc supply
<b>Environmental</b>	IP68 with submersible cable which has a strain wire and a vent tube for gauge format sensors
<b>Long Term Stability</b>	0.1% / 12 months typical
<b>Wetted Materials</b>	316L stainless steel, alumina ceramic
<b>EMC Protection</b>	PUR cable, ESP109 epoxy resin IEC 801 parts 2, 3 & 4



## DIMENSIONS



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](mailto:sales@roxspur.com) [www.roxspur.com](http://www.roxspur.com)



CERTIFICATE No. FM22358