

## Sensit P6420-26 Field Re-Rangeable Transmitter

The Sensit P6420-26 is a high performance, temperature compensated pressure transmitter having a two wire, 4-20mA output, with a facility for re-ranging by the user. It is available in standard ranges from 0-10 to 0-100 metres water gauge, or may be scaled to customer requirements. All ranges are available in gauge or absolute format.

### DESCRIPTION

The P6420-26 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 offers a two wire, 4-20mA output proportional to liquid level. The sensing element and its associated electronics are housed in a rugged two part stainless steel case, which provides access to the 5:1 turndown facility DIL switches and zero & span potentiometers. The two halves are secured by means of cap headed screws and an O-ring seal, which when coupled with the IP68 sealed cable gland, provides a high integrity waterproof assembly.

Both sensor and electronics are protected from the effects of lightning strikes by the inclusion of a lightning protection circuit.



### FEATURES

- 5:1 turndown facility
- 4-20mA, two wire output
- Excellent linearity
- Wide temperature range
- Lightning protection
- Rugged construction
- Excellent long term stability
- Temperature compensated

### OPTIONS

- Low power version 9-30V
- Extended temperature range capability

### APPLICATIONS

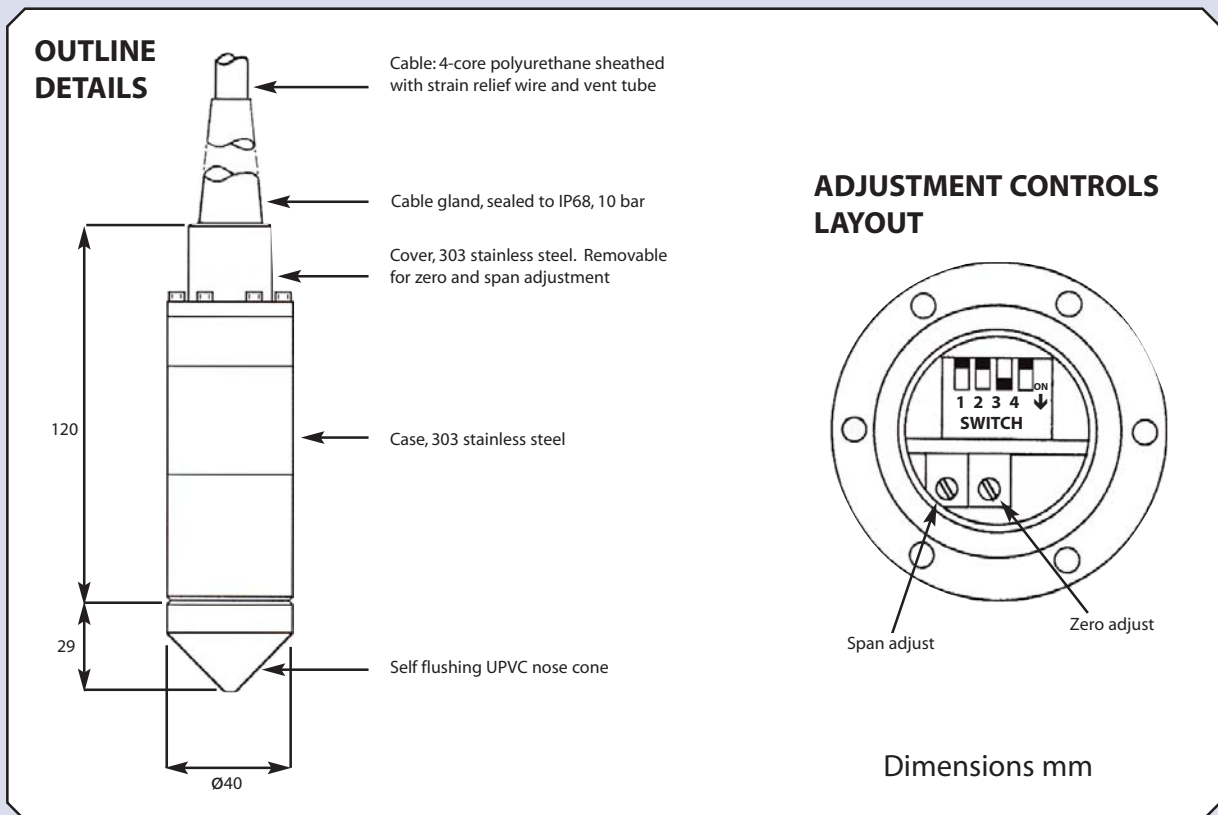
- Water level/pressure
- Soil mechanics
- Tank contents

### SPECIFICATION

<b>Pressure Range</b>	0-10, 20, 50 and 100 metres water gauge or absolute. Other ranges available 9-30V or 20-50Vdc unregulated (factory set)
<b>Excitation</b>	
<b>Output</b>	Span: 16mA $\pm$ 1% Zero: 4mA $\pm$ 1% of span at zero pressure
<b>Non Linearity, Hysteresis &amp; Repeatability (NLH)</b>	< $\pm$ 0.25% of span (best fit straight line)
<b>Compensated Temp Range</b>	-10°C to 80°C
<b>Operating Temp Range</b>	-25°C to 100°C
<b>Thermal Zero Shift</b>	< $\pm$ 0.015% span/°C
<b>Thermal Span Shift</b>	< $\pm$ 0.008% reading/°C
<b>Safe Over-Range</b>	1.5 x rated range minimum
<b>Burst Pressure</b>	3 x rated range minimum
<b>Pressure Connection</b>	G1/4 female (1/4" BSP) - for calibration purposes
<b>Loading Driving</b>	1.5k $\Omega$ @ 50Vdc supply maximum
<b>Environmental Protection</b>	Sealed to IP68 up to 100mWG
<b>Electrical Connection</b>	Fully screened polyurethane sheathed cable with vent tube & strain wire. Red; +ve Blue; -ve White; earth
<b>Insulation Resistance</b>	>500M $\Omega$ at 500Vdc
<b>Long Term Stability</b>	0.1% span/12 months
<b>Wetted Parts</b>	303 stainless steel, alumina ceramic and nitrile rubber seals (other seal materials available)

## SWITCH POSITION DETAILS

Turndown Ratio	Switch 1	Switch 2	Switch 3	Switch 4
1:1	on	off	off	off
2:1	off	on	off	off
3:1	off	off	on	off
4:1	off	off	off	on
5:1	off	off	off	off



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