

Protran®PR3442

Slim Submersible Depth/Level Pressure Transmitter



- Slimline 16 mm diameter
- Piezoresistive sensor technology for excellent stability and repeatability
- Robust stainless steel construction
- 0-50 mWG
- protection against ingress











Description

The PR3442 ultra slim submersible transmitter has been designed for the accurate measurement of the depth and level of liquids in borehole applications

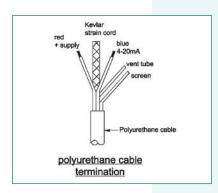
Standard output signal is 4-20 mA two wire. Supply range 13-36 Vdc, with integral transient voltage protection. Electrical connection is via a high strength moulded polyurethane cable with internal tube for excellent trouble-free venting to the surface atmosphere. The standard depth transmitter is fitted with a stainless steel nose cone with radial inlet holes to prevent sludge build-up. The PR3442 has a slim-line 16 mm diameter suitable for 19 mm boreholes or greater.

Applications include borehole level and reservoir level monitoring, water mains pressure measurement in inspection chambers, power level and outlet pressure measurement on submersible pumps.

Dimensions (in mm)

ELECTRICAL CONNECTION (mA)

Red +supply
Blue 4-20mA signal
Screen to case







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Technical Data

Type:	PR3442				
Sensor Technology:	Isolated Piezoresistive Silicon				
Output signal:	4-20 mA (2 wire)				
Supply Voltage:	13 -36 VDC				
Pressure Reference:	Vented or Sealed Gauge				
Protection of Supply Voltage:	Protected against supply voltage reversal up to 50 V				
Standard Pressure Ranges (mWG):	0-30 mWG; 0-50 mWG; 0-80 mWG; 0-100 mWG; 0-150 mWG; 0-250 mWG; 0-500 mWG (other options available)				
Standard Pressure Ranges (psi):	0-50 psi; 0-75 psi; 0-100 psi; 0-150 psi; 0-200 psi; 0-300 psi; 0-750 psi (other options available)				
Overpressure Safety:	2x all ranges				
Load Driving Capability:	4-20 mA: RL < [UB - 13 V] / 20 mA (e.g. with supply voltage (UB) of 36V, max. load (RL) is 1150 Ω)				
Accuracy NLHR:	≤ ±0.3 % of span BFSL				
Zero Offset and Span Tolerance:	±0.5% FS at room temperature				
Operating Ambient Temperature:	-20 °C - +60 °C (-4 °F to +140 °F)				
Operating Media Temperature:	Media must not freeze around the sensor				
Storage Temperature:	+5 °C to +40 °C (+41 °F to +104°F) Recommended Best Practice				
Temperature Effects:	$\pm 2.0\%$ FS total error band for -20 °C - +60 °C. Typical thermal zero and span coefficients +/0.03%FS/°C				
Electromagnetic Capability:	Emissions: EN61000-6-4; Immunity: EN61000-6-2; Certification: CE Marked				
Insulation Resistance:	> 100 MΩ @ 50 VDC				
Wetted Parts:	SAE 316L stainless steel housing & diaphragm and polyurethane cable				
Pressure Media:	All fluids compatible with SAE 316L stainless steel and polyurethane				
Pressure Connection:	Stainless steel nose cone with radial pressure inlets				
Electrical Connection:	Submersible black polyurethane cable moulded to housing. With integral screen, Kevlar strain cord and ven tube. Conductor size 7/0.20 mm (24 AWG), resistance 8.9 Ω / 100 m (x2)				



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Order Matrix

Output	Wires	Туре	Electrical Connector	Pressure Range	Process Connection
4-20mA	2	PR3442			
Electrical Connection / Option					
No special options available					
Pressure Range in mWG (Metres					
0-50 mWG	0050				
0-100 mWG	0100				
0-250 mWG	0250				
0-500 mWG				0500	
Process Connection					
Protective nose cone					

Cable

Cable length is specified by adding a 3 digit numeric code as a suffix to the part number. Example -010 = 10 metres.

Max cable length 500 metres

Order Number Example

PR3442-0100AX-0100

For options not listed please contact sales team.

