

Protran[®]PR3442

Slim Submersible Depth/Level Pressure Transmitter



- Slimline 16mm diameter
- Piezoresistive sensor technology for excellent stability and repeatability
- Robust stainless steel construction
- Pressure ranges available from 0-50 mWG
- High strength, moulded cable for protection against ingress







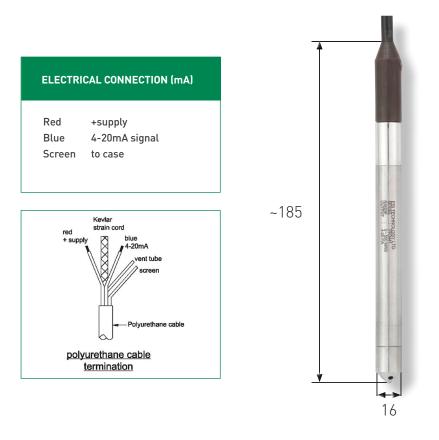
Description

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)



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Technical Data

Туре:	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 $\Omega)$					
Accuracy NLHR:	$\leq \pm 0.3$ % 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 Compatibility:	Emissions: EN61000-6-4; Immunity: EN61000-6-2; Certification: CE Marked					
Insulation Resistance:	> 100 MΩ @ 50 VDC					
Wetted Parts:	SAE 316L stainless steel housing and diaphragm, polyurethane cable and nitrile (NBR) o-ring seal					
Pressure Media:	All fluids compatible with SAE 316L stainless steel, polyurethane and nitrile (NBR)					
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 vent tube. Conductor size 7/0.20 mm (24 AWG), resistance 8.9 Ω / 100 m (x2)					
Net. Weight (Kg):	0.4 Kg					

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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 Wate	(Gauga)					
0-50 mWG	r Gauge)			0050	-	
0-100 mWG				0100		
0-250 mWG				0250		
0-500 mWG				0500		
Process Connection						
Protective nose cone					АХ	
Cable Length						
Cable length is specified by adding a 3 d e.g010 = 10 metres. (Max cable length 500 metres)	igit numeric	code as a suffi	x to the part number.			xxx
Order Number Example	002442	0100AX-0100				

Order Number ExamplePR3442For options not listed please contact the sales team

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