



bar

APR3420

Sludge Platform Submersible Depth/Level Pressure Transmitter

FEATURES

- Sludge Platform to raise sensor above sediment level
- Piezoresistive sensor technology for excellent stability and repeatability
- Robust stainless steel construction
- Pressure ranges available from 0-1 mWG
- High Strength cable for protection against ingress
- ATEX/IECEx option available



SPECIFICATIONS

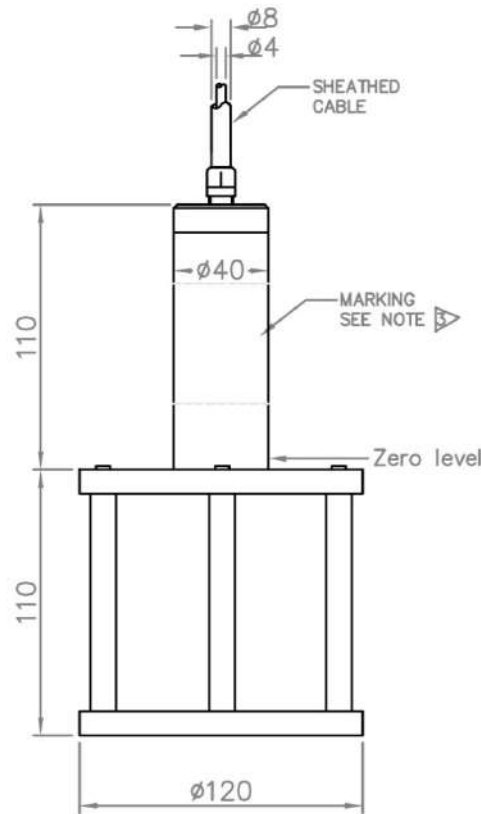
The APR3420 submersible depth and level transmitter has been designed for accurate level measurement where sediment is present. The integral sludge platform ensures that the sensing element is elevated above the sediment level. Standard output signal is 4-20 mA, and electrical connection is via a high strength cable, with integral tube for trouble-free venting to the surface atmosphere. An optional ATEX and IECEx approved version of this product is available for explosion protection for flammable gases (zone 0), dusts (zone 20) and mining areas (group I M1).

Typical applications include:

- Accurate measurement of the depth and level of liquids in many applications.



DIMENSIONS (in mm)



ELECTRICAL CONNECTIONS

Wire	mA (2 wire)
Red	+supply
Blue	4-20mA signal
Screen	to case



TECHNICAL DATA

Type	APR3420		APR3422	APR3422
Sensor Technology:	Isolated Piezoresistive Silicon			
Output Signal:	4-20 mA (2 wire)		0-10 V (3 wire)	0-10 V (3 wire)
Supply Voltage:	13-36 VDC		13-30 VDC	13-30 VDC
Pressure Reference:	Vented Gauge			
Protection of Supply Voltage:	Protected against supply voltage reversal up to 50 V			
Standard Pressure Ranges (mWG):	0-1 mWG; 0-10 mWG; 0-20 mWG; 0-50 mWG; 0-100 mWG; 0-250 mWG; 0-500 mWG (other options available)			
Standard Pressure Ranges (psi):	0-3 psi; 0-5 psi; 0-7.5 psi; 0-10 psi; 0-15 psi; 0-30 psi; 0-50 psi; 0-100 psi; 0-200 psi; 0-300 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; 10 mV/V: n/a; 0 – 5 V: max. load RL > 5 KΩ; 0 – 10 V: max. load RL > 10 KΩ			
Accuracy NLHR:	< +0.3 % of span BFSL			
Zero Offset & Span Tolarence:	±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 sesnor			
Storage Temperature:	+5C to +40C (+41F to +104F) Recommended Best Practice			
Temperature Effects:	±2.0% FS total error band for -20 °C to +60 °C. Typical thermal zero and span coefficients ±0.03% FS/ °C			
ATEX/IECEx Approval (4-20 mA version only):	EX II 1 G Ex ia IICT4 GA (Zone 0) Ex II 1 D Ex ia IIIC T135 C Da (Zone 20)	n/a		
ATEX/IECEx Saftey Values:	Ui = 28 V / Li = 119mA / Pi = 0.65 W / Li = 0.1 pH / Ci = 62 nF. Temperature Range = '-20C to +70C. Max. cable length = 105m	n/a		
Electromagnetic Campatibility:	Emissions: EN61000-6-4; Immunity: EN61000-6-2; Certification: CE Marked			
Insulation Resistance:	> 100 M @ 50 VDC			
Wetted Parts:	SAE 316L stainless steel housing and diaphragm, polyurethane cable and nitrile (NBR) o-ring seal; 303 stainless steel sludge platform			
Pressure Media:	All fluids compatible with SAE 316L stainless steel, 303 stainless steel, polyurethane and nitrile (NBR)			
Pressure Connection:	4 mm I.D. hose (other options available			
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):	2.5 Kg			



ORDER MATRIX

Output	Wires	Type	Electrical Connection/Options	Pressure Range	Process Connection	Cable Length
4-20 mA	2	APR3420				
0-5 V	4	APR3421				
0-10 V	4	APR3422				
Electrical Connections/Options						
No special option required			-			
ATEX/IECEx certified			EX			
Pressure Range in bar						
0-1 mWG				0001		
0-5 mWG				0005		
0-10 mWG				0010		
0-50 mWG				0050		
0-100 Mwg				0100		
0-250 Mwg				0250		
0-500 Mwg				0500		
Process Connection						
Sludge platform					AY	
Cable Length						
Cable length is specified by adding a 3 digit numeric code as a suffix to the part number e.g '010 = 10 meters. (Max cable length 500 maters).						xxx

Order Number Example

APR3420EX0500AY-020

For options not listed please contact the sales team

DISCLAIMER: We reserve the right to change specifications without prior notice. specifications without prior notice. All manufactured products are calibrated with precision calibration equipment that is traceable to national measurement standards.