ILS series Submersible Level Transmitter



The ILS is designed for use in continuous submersion in liquids such as water, oil and other non-aggressive chemicals. The submersible uses the latest piezo-resistive media-isolated silicon sensing technology and a stainless steel diaphragm within a 316L stainless steel housing.

It offers excellent stability, repeatability and resolution, as required for use in rivers and reservoirs. This submersible level transmitter is the ideal product for reliable and repeatable hydrostatic level measurement.

The electronics incorporate a microprocessor based amplifier, requiring no adjusting and giving stable electronics.

Each device is temperature compensated, calibrated and supplied with a traceable serial number and calibration data.*

*Calibration data is supplied as a sticker affixed to the product packaging - do not discard Custom versions can be made for particular applications.

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IS09001 CERTIFIED

ILS 2018



- Stainless steel, piezo-resistive sensor
- Accuracy: <0.1% FS BFSL
- Pressure ranges from 1mWG to 100mWG
- Various cable lengths

Suitable applications

River level Reservoir level Tank level Borehole level Aquifer level Environmental monitoring V-notch weir flow measurement

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Accuracy (Non-Linearity & Hysteresis) $<\pm 0.1\%$ / FS (BFSL)					
Setting Errors (offsets)	Zero & Full Scal	e, <±0.5% / FS			
Permissible Load	$R_{max} = [(Voltage)]$	Supply-9)/0.02]Ohms			
Influence Effects	Supply	<0.005% FS / 1V			
	Load	0.05% FSO / kOhm			
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Input Pressure Range								
Nominal Pressure, Gauge	mWG	1	2.5	5	10	20	50	100
Permissible Overpressure	mWG	20	20	50	50	50	100	100

Output S	ignals and Supply Vo	Itages		PUR sheath
Wire syst	em Output	Supply Voltage	Connection	Wire Colours
2-wire	4-20mA	9-32Vdc	+ve Supply	Red
			-ve Supply	Blue
			Ground	White



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Cable Screen

Green

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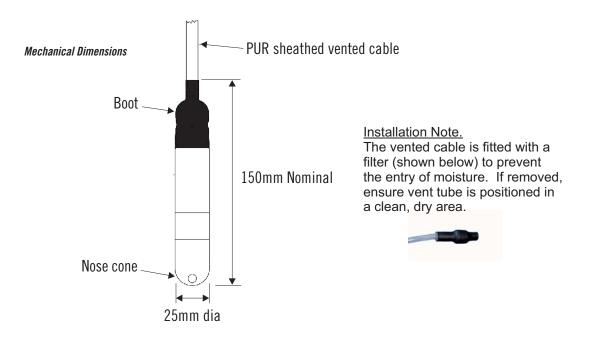
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<±0.01%/°C



Electrical Protection		Material Specifications			
Supply reverse polarity protection Lightning protection Electromagnetic compatibility	No damage/no function Internally fitted CE Compliant	Housing "O" ring seals Diaphragm Cable sheath material	316L Stainless Steel Viton 316L Stainless Steel PUR		
Mechanical Stability		Media wetted parts	Housing, "O" ring seal, diaphragm &		
Shock	100g / 11ms	cable sheath			
Vibration 10g RMS (20 - 2000Hz)		Miscellaneous			
	-	Weight	Transmitter: approx 250g		
Temperature & Thermal Effects			Cable: 48g per metre		
Media temperature -20	°C (Non-freezing) to +60°C	Current consumption	Limits at 28mA		
Storage temperature -20			Any, small zero shift when tilted through S		
Compensated temperature range $20^{\circ}C \pm 25^{\circ}C$		Operational life	$> 100 \mathrm{x} 10^6 \mathrm{cycles}$		
	0.02%/FS/°C	·	-		

Part No	Pressure Range	Cable Length	Output
ILS-G0100-003	0-1mWG (0-39"WG)	3M	4-20mA
ILS-G0250-005	0-2.5mWG (0-98"WG)	5M	4-20mA
ILS-G0500-007	0-5mWG (0-197"WG)	7M	4-20mA
ILS-G1000-015	0-10mWG (0-394"WG)	15M	4-20mA
ILS-G2000-025	0-20mWG (0-788"WG)	25M	4-20mA
ILS-G5000-060	0-50mWG (0-1970"WG)	60M	4-20mA
ILS-G1002-110	0-100mWG (0-3940"WG)	110M	4-20mA



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Thermal span shift (TSS)

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