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

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.

stainless steel housing.

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.*

- Stainless steel, piezo-resistive sensor
- Accuracy: <0.1% FS BFSL</p>
- 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

Performance

Accuracy (Non-Linearity & Hysteresis) <±0.1% / FS (BFSL)

Setting Errors (offsets) Zero & Full Scale, $<\pm0.5\%$ / FS Permissible Load R_{max} = [(Voltage Supply-9)/0.02]0hms Influence Effects Supply <0.005% FS / 1V Load 0.05% FS0 / k0hm

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 Sig	gnals and Supply Voltages			PUR sheath
Wire syste	m Output	Supply Voltage	Connection	Wire Colours
2-wire	4-20mA	9-32Vdc	+ve Supply	Red
			-ve Supply	Blue
			Ground	White
			Cable Screen	Green

*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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ILS series

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Submersible Level Transmitter

Electrical Protection Supply reverse polarity protection Lightning protection Electromagnetic compatibility No damage/no function Internally fitted CE Compliant

Mechanical Stability

 Shock
 100g / 11ms

 Vibration
 10g RMS (20 - 2000Hz)

Temperature & Thermal Effects

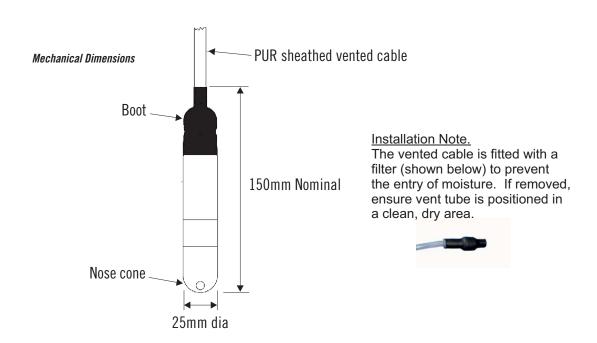
Media temperature -20°C (Non-freezing) to +60°C

 $\begin{array}{lll} \mbox{Storage temperature} & -20\mbox{°C to } +70\mbox{°C} \\ \mbox{Compensated temperature range} & 20\mbox{°C} \pm 25\mbox{°C} \\ \mbox{Thermal zero shift (TZS)} & <\pm 0.02\mbox{\%/FS/°C} \\ \mbox{Thermal span shift (TSS)} & <\pm 0.01\mbox{\%/°C} \\ \end{array}$

Material Specifications	
Housing "O" ring seals Diaphragm Cable sheath material Media wetted parts cable sheath	316L Stainless Steel Viton 316L Stainless Steel PUR Housing, "O" ring seal, diaphragm &
Miscellaneous Weight	Transmitter: approx 250g
•	Cable: 48g per metre

Current consumption Limits at 28mA Installation position Any, small zero shift when tilted through 90° > 100x 10° cycles

	,		
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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Authorized Distributor

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Sensata:

ILS-G0100-003 ILS-G0250-005 ILS-G0500-007 ILS-G1000-015 ILS-G1002-110 ILS-G2000-025 ILS-G5000-060