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

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.

a stainless steel diaphragm within a 316L

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 certificate.

- 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)

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 Si	gnals and Supply Vo	Itages		PUR sheath
Wire syste	em Output	Supply Voltage	Connection	Wire Colours
2-wire	4-20mA	9-32 V dc	+ve Supply	Red
			-ve Supply	Blue
			Ground	White
			Cable Screen	Green

Custom versions can be made for particular applications.

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ISO9001certified www.cynergy3.com

ILS series

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

Storage temperature -20°C to $+70^{\circ}\text{C}$ Compensated temperature range $20^{\circ}\text{C} \pm 25^{\circ}\text{C}$ Thermal zero shift (TZS) $<\pm 0.02\%/\text{FS}/^{\circ}\text{C}$ Thermal span shift (TSS) $<\pm 0.01\%/^{\circ}\text{C}$

316L Stainless Steel
Viton
316L Stainless Steel
PUR
Housing, "O" ring seal, diaphragm &

Miscellaneous

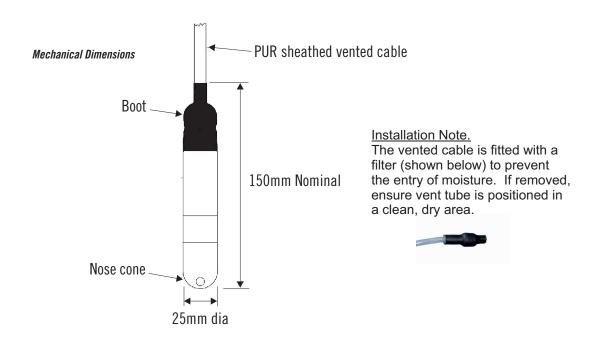
Weight Transmitter: approx 250g

Cable: 48g per metre
Current consumption Limits at 28mA

Installation position Any, small zero shift when tilted through 90°

Operational life $> 100 \times 10^6$ 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	



ISO9001certified www.cynergy3.com