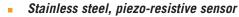
RS stock numbers: 8697712, 8697716, 8697725

ILTS series





Submersible Dual Level & Temperature Transmitter



Level accuracy: <0.1% FS BFSL</p>

Pressure ranges from 1mWG to 10mWG

Temperature range: -20 to +60°C

Dual independent 4-20mA outputs



River level & temperature
Tank level & temperature
Aquifer level & temperature
Environmental monitoring

V-notch weir flow measurement

Pressure Ranges				
Nominal Pressure, Gauge	mWG	1	5	10
Permissible Overpressure	mWG	20	50	50

Temperature Range

Temperature range °C -20 to +60



The ILTS is designed for use in continuous submersion in liquids such as water, oil and fuels. The probe uses the latest piezoresistive media-isolated silicon sensing technology and a stainless steel diaphragm. Housed within a 316L stainless steel, or high grade Duplex stainless steel housing, this submersible transmitter is the ideal product for hydrostatic level measurement where temperature is also a critical part of

It offers excellent stability, repeatability and resolution, as required for use in rivers and reservoirs.

the measurement.

This type incorporates a Class 'B' accuracy platinum resistance thermometer.

Every device is temperature compensated, calibrated and supplied with a traceable serial number and calibration certificate.

Custom versions can be made for particular applications.

Cynergy3 Components Ltd. 7 Cobham Road Ferndown Industrial Estate Wimborne, Dorset BH21 7PE Telephone +44 (0) 1202 897969

Email:sales@cynergy3.com Web: www.cynergy3.com

Level Performance

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

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

Temperature Performance

Measurement Accuracy (mA output/2000) or 5μ A (whichever is the greater)

Thermal drift $1 \mu A^{\circ}C$ Loop Voltage effect $0.2 \mu A/V$

Maximum output load [(Vsupply-10)/21] kOhms

(Example: 700 Ohms @ 24V)
Output Timing Transmitter start up time: 4 sec

Transmitter start up time: 4 seconds (I out <4mA during

start up)

Warm up time: 1 minute to full accuracy

Update time: 500ms Response time: 1 second

Output Signals	s and Supply	y Voltages
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Level (2-wire)	Output 4-20mA	Supply Voltage 9-32Vdc	Connection Wire Colours +ve Supply Red -ve Supply Blue Ground Green & Cable Screen
Temperature (2-wire) 4-20mA		9-32Vdc	+ve Supply White -ve Supply Yellow Ground Green & Cable Screen

ISO9001 CERTIFIED www.cynergy3.com

ILTS series





Submersible Dual Level & Temperature Transmitter

Electrical Protection

Supply reverse polarity
Lightning protection

No damage but also no function
Internally fitted

Electromagnetic compatibility CE Compliant

Mechanical Stability

Shock 100g / 11ms

Vibration 10g RMS (20 - 2000Hz)

Temperatures & Thermal Effects

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

Storage temperature -20°C to +70°C

Compensated temperature range(level only) $20^{\circ}\text{C} \pm 25^{\circ}\text{C}$ Thermal Zero Shift (TZS) (level only) $<\pm 0.02\%$ /FS/°C Thermal Span Shift(TSS) (level only) <-0.015% /°C

Thermal Drift (temperature only) 1µA/°C

Material Specifications

Housing 316L Stainless Steel

"0" ring seals Viton

Diaphragm 316L Stainless Steel

Cable sheath material PUR

Media wetted parts Housing, "0" ring seal, diaphragm, cable

sheath

Weight

Miscellaneous

Current Consumption Level transmitter limits at 28mA

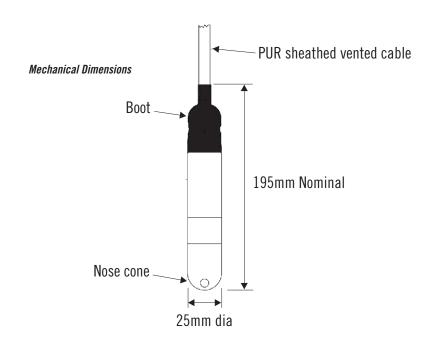
Temperature transmitter limits at 21.5mA Transmitter: approx 300g inc. nose cone

Cable: 48g per meter

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

Operational Life > 100x 10⁶ cycles

RS Stock No.	Part No	Pressure Range	Cable Length
8697712	ILTS-G0100-003	0-1mWG (0-39"WG)	3M
8697716	ILTS-G0500-007	0-5mWG (0-197"WG)	7M
8697725	ILTS-G1000-015	0-10mWG (0-394"WG)	15M



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