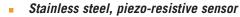






## Submersible Dual Level & Temperature Transmitter



- Level accuracy: <0.1% FS BFSL
- Pressure ranges from 1mWG to 10mWG
- Temperature range: -20 to +60°C
- Dual independent 4-20mA outputs

#### Suitable applications

River level & temperature Reservoir level & temperature Tank level & temperature Borehole 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 O° -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.

#### **Level Performance**

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

Setting Errors (offsets) Zero & Full Scale, <±0.5% / FS  $R_{max} = [(Voltage Supply-9)/0.02]0hms$ Permissible Load Influence Effects Supply <0.005% FS / 1V Load 0.05% FSO / k0hm

#### Temperature Performance

Measurement Accuracy (mA output/2000) or  $5\mu$ A (whichever is the greater)

1 μA/°C Thermal drift Loop Voltage effect 0.2µA/V

Maximum output load [(Vsupply-10)/21] k0hms

(Example: 700 Ohms @ 24V) **Output Timing** 

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 and Supply Voltages**

Level (2-wire)	Output 4-20mA	Supply Voltage 9-32Vdc	Connection +ve Supply -ve Supply Ground & Cable Screen	Wire Colours Red Blue Green
Temperature (2-wire	e) 4-20mA	9-32Vdc	+ve Supply -ve Supply Ground & Cable Scree	White Yellow Green n

Custom versions can be made for particular applications.

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IS09001CERTIFIED

**ILTS 2015** 

www.cynergy3.com

### **ILTS** series





### Submersible Dual Level & Temperature Transmitter

**Electrical Protection** 

Supply reverse polarity No damage but also no function

Lightning protection 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°C±25°C

Thermal Zero Shift (TZS) (level only)  $<\pm0.02\%$  /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

Miscellaneous

Current Consumption Level transmitter limits at 28mA

Temperature transmitter limits at 21.5mA

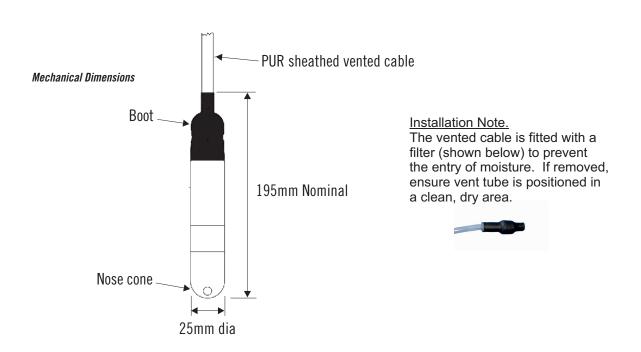
Weight Transmitter: approx 300g inc. nose cone

Cable: 48g per meter

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

Operational Life > 100x 10<sup>6</sup> cycles

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



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