ILTSU series Submersible Dual Level & Temperature Transmitter



The ILTSU 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 the measurement.

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

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

ISO9001 CERTIFIED

Stainless steel, piezo-resistive sensor

- Level accuracy: <0.1% FS BFSL
- Depth ranges from 0-48" (0-4ft) to 0-360" (0-30ft) WG
- Temperature range: -20 to +60°C
- Dual independent 4-20mA outputs

Tank level & Aquifer level	temperature temperature & temperatur flow measure	Borel e Envir	rvoir level & ten 10le level & tem onmental monit	perature		
Pressure Ra			40			400
Nominal Pres	sure, Gauge	inchWG	40		200	400
Permissible ()verpressure	inchWG	400		2000	2000
Temperature	Range					
Temperature	range	°C	-20 to +	-60		
Level Perfo			<±0.1% / FS (5 5 6 1 -		
Setting Errors (offsets) Permissible Load Influence Effects			Zero & Full Sca R _{max} = [(Voltage Supply Load	e Supply- <0.005		
	e Performanc	e				
Measuremer Thermal drif Loop Voltage Maximum ou Output Timin	t effect itput load 1g		(mA output/20 1 μA/°C 0.2μA/V [(Vsupply-10)/ (Example: 700 Transmitter sta start up) Warm up time: Update time: 5 Response time	21] kOhn Ohms @ art up tin 1 minut 00ms	ns 24V) ne: 4 seconds (e to full accura	l out <4mA duri
Dutput Signals an					- ··	
evel (2-wire)	Output 4-20mA		oply Voltage -32Vdc		Connection +ve Supply -ve Supply Ground & Cable Scr	Red Blue Green
emperature (2-wi	re) 4-20mA	9	-32Vdc		+ve Supply -ve Supply Ground & Cable Sc	Yellow Green



www.cynergy3.com

© 2015 Cynergy3 Components, All Rights Reserved. Specifications are subject to change without prior notice. Cynergy3 Components and the Cynergy3 Components logo are trademarks of Cynergy3 Components Limited.

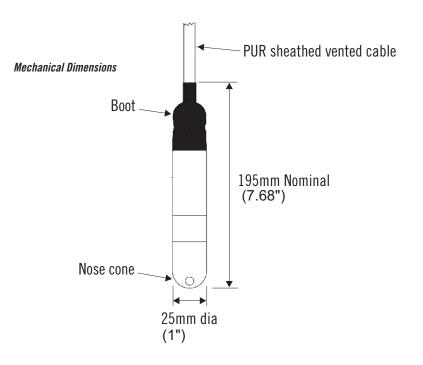
ILTSU series Submersible Dual Level & Temperature Transmitter

Electrical Protection			Material Specifications	
Supply reverse polarity	No damage but also no function		Housing	316L Stainless Steel
Lightning protection Internally fitted		"0" ring seals	Viton	
Electromagnetic compatibility CE Compliant		Diaphragm	316L Stainless Steel	
			Cable sheath material	PUR
Mechanical Stability			Media wetted parts	Housing, "O" ring seal, diaphragm, cable
Shock	100g / 11ms			sheath
Vibration	10g RMS (20 - 2000Hz)		Miscellaneous	
Temperatures & Thermal Effects			Current Consumption	Level transmitter limits at 28mA
Media Temperature	-20°C (Non-freezing) to +60°C			Temperature transmitter limits at 21.5mA
Storage temperature	-20°C to +70°C		Weight	Transmitter: approx 10.5oz (300g) inc.
Compensated temperature range(level only) 20°C±25°C			nose cone	
Thermal Zero Shift (TZS) (level only) <= ±0.02% /FS/%		<±0.02% /FS/ºC		Cable: 1.7oz (48g) per yard (meter)
Thermal Span Shift(TSS) (level only)		<-0.015% /ºC	Installation position	Any, small zero shift when tilted through 90°
Thermal Drift (temperature only) 1µA/°C		1µA/⁰C	Operational Life	> 100x 10 ⁶ cycles

A/

Part No	Pressure Range	Cable Length
ILTSU-Gi048-003	0-48" WG	10ft
ILTSU-Gi180-007	0-180" WG	22ft
ILTSU-Gi360-015	0-360" WG	48ft

(Custom ranges and outputs available on request)



ISO9001 CERTIFIED