ILSU series Submersible Level Transmitter



The ILSU 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 stainless steel housing.

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.

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.

Custom versions can be made for particular applications.

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- Stainless steel, piezo-resistive sensor
- Accuracy: <0.1% FS BFSL
- Depth ranges from 0-48" (0-4ft) to 0-3600" (0-300ft) WG
- Various cable lengths

Suitable applications

River level Reservoir level Tank level Borehole level Aquifer level Environmental monitoring V-notch weir flow measurement

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Accuracy (Non-Linearity & Hysteresis)	<±0.1% / FS (I	BFSL)
Setting Errors (offsets)	Zero & Full Sca	le, <±0.5% / FS
Permissible Load	$R_{max} = [(Voltage)]$	Supply-9)/0.02]Ohms
Influence Effects	Supply	<0.005% FS / 1V
	Load	0.05% FSO / kOhm

Input Pressure Range								
Nominal Pressure, Gauge	inchWG	40	100	200	400	800	1000	4000
Permissible Overpressure	inchWG	800	800	1000	1000	1000	2000	2000

Output Si	gnals and Supply Vol	tages		PUR sheath
Wire syste 2-wire	em Output 4-20mA	Supply Voltage 9-32Vdc	Connection +ve Supply	Wire Colours Red
Z-WIIE	4-2011A	9-32 VUC	-ve Supply	Blue
			Ground	White
			Cable Screen	Green

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<±0.01%/°C



Electrical Protection		Material Specifications			
Supply reverse polarity protection No damage/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 &		
Shock	100g / 11ms	cable sheath			
Vibration	10g RMS (20 - 2000Hz)	Miscellaneous			
		Weight	Transmitter: approx 9oz (250g)		
Temperature & Thermal Effects			Cable: 1.7oz (48g) per yard (metre)		
Media temperature -20°C (Non-freezing) to +60°C		Current consumption	Limits at 28mA		
Storage temperature -20°C	to +70℃	Installation position	Any, small zero shift when tilted through 90 $> 100 \mathrm{x} \ 10^6$ cycles		
Compensated temperature range 20°C±	25℃	Operational life			
	2%/FS/ºC				

Part No	Pressure Range	Cable Length	Output
ILSU-Gi048-003	0-48" WG	10ft	4-20mA
ILSU-Gi120-005	0-120" WG	16ft	4-20mA
ILSU-Gi240-008	0-240" WG	26ft	4-20mA
ILSU-Gi360-016	0-360" WG	52ft	4-20mA
ILSU-Gi720-025	0-720" WG	82ft	4-20mA
ILSU-Gi1K8-060	0-1800" WG	196ft	4-20mA
ILSU-Gi3K6-110	0-3600" WG	360ft	4-20mA

(Custom ranges and outputs available on request)



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ILSU 2015

Thermal span shift (TSS)

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