

ILSEU series

External Mount Hydrostatic Level Transmitter



The external mount hydrostatic level transmitter, ILSEU, has a piezo-resistive silicon pressure sensor which is an oil-filled isolated diaphragm. The sensor and housing are made from stainless steel with a choice of internal O-ring seals to ensure the product is suitable for a wide range of applications.

The electronics incorporate a microprocessor based amplifier, requiring no adjusting and giving stable electronics, especially in high vibration/shock applications.

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

- Piezo-resistive sensor
- Accuracy <±0.25% FS BFSL
- Various outputs including Volts and mA.
- Level ranges from 0-48" (0-4ft) to 0-480" (0-40ft) water gauge (Custom ranges available on request)

Input Pressure Ranges						
Nominal level, Gauge,	inchWG	40	100	200	280	400
Permissible Overpressure	inchWG	800	800	800	2000	2000

Suitable applications

Environmental engineering
Rainwater harvesting
Static tank level
Laboratory testing
Container or chamber level
Automotive testing
Vehicle tank level
IBC, IBC Tote or pallet tank

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Accuracy (Non-Linearity & Hys	teresis)	<±0.25% / FS (BFSL)
Setting Errors (offsets)	2-wire	Zero & Full Scale, <±0.5% / FS
	3-wire	Zero & Full Scale, <±0.5% / FS
Permissible Load	2-wire	$R_{max} = [(VS-VSmin)/0.02]\Omega$
	3-wire	$R_{min} = 10 k\Omega$
Influence Effects	Supply	<0.005% FS / 1V
	Load	0.05% FSO / $k\Omega$

Electrical Protection

Material Specifications	
Housing	303 Stainless Steel
"0" ring seals	Viton
Diaphragm	316L Stainless Steel
Media wetted parts	Housing & process connection, "O" ring seal, diaphragm
Miscellaneous	
Current consumption	2 -wire - limits at 28mA 3-wire - typical 6mA
Weight	Approx 3.5oz (100g)
Installation position	Any, small zero shift when tilted through 90
Operational Life	> 100 x 10 ⁶ cycles
Insulation resistance	> 50MOhms at 50Vdc
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Supply reverse polarity Electromagnetic compatibility	No damage but also no function CE Compliant
Mechanical Stability	
Shock	100g / 11s
Vibration	10g RMS (20 - 2000Hz)
Temperatures & Thermal Effects	
Media Temperature	-40°C to +125°C
Ambient Temperature	-20°C to +80°C
Storage temperature	-40°C to +125°C
Compensated temperature range	+20°C to +80°C
Thermal Zero Shift (TZS)	<±0.04% /FS/°C
Thermal Span Shift (TSS)	<-0.015% /°C

*Calibration data is supplied as a sticker affixed to the product packaging - do not discard



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Output Signal and Supply Voltage					
Wire system	Output	Supply Volts	Connection	Pin No. (Large plug and socket)	
2-wire	4-20mA	9-32Vdc	+ve Supply -ve Supply Ground	Pin 1 Pin 2 Earth pin	
3-wire	0.5 - 4.5Vdc (non-ratiometric)	9-32 Vdc	+ve Supply -ve Supply +ve Output Ground	Pin 1 Pin 2 Pin 3 Earth Pin	

Part No	Pressure Range	Output
ILSEU-Gi048-5	0-48" WG	4-20mA
ILSEU-Gi120-5	0-120" WG	4-20mA
ILSEU-Gi240-5	0-240" WG	4-20mA
ILSEU-Gi360-5	0-360" WG	4-20mA
ILSEU-Gi480-5	0-480" WG	4-20mA
ILSEU-Gi048-D	0-48" WG	0.5 to 4.5V 3Wire
ILSEU-Gi120-D	0-120" WG	0.5 to 4.5V 3Wire
ILSEU-Gi240-D	0-240" WG	0.5 to 4.5V 3Wire
ILSEU-Gi360-D	0-360" WG	0.5 to 4.5V 3Wire
ILSEU-Gi480-D	0-480" WG	0.5 to 4.5V 3Wire

Part No	Pressure Range	Output
ILSEU-G0100-5	0 - 1mWG	4-20mA
ILSEU-G0250-5	0 - 2.5mWG	4-20mA
ILSEU-G0500-5	0 - 5mWG	4-20mA
ILSEU-G0700-5	0 - 7mWG	4-20mA
ILSEU-G1000-5	0 - 10mWG	4-20mA
ILSEU-G0100-D	0 - 1mWG	0.5 to 4.5V 3Wire
ILSEU-G0250-D	0 - 2.5mWG	0.5 to 4.5V 3Wire
ILSEU-G0500-D	0 - 5mWG	0.5 to 4.5V 3Wire
ILSEU-G0700-D	0 - 7mWG	0.5 to 4.5V 3Wire
ILSEU-G1000-D	0 - 10mWG	0.5 to 4.5V 3Wire

(Custom ranges and outputs available on request)



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Sensata:

<u>ILSEU-G0100-5</u> <u>ILSEU-G0100-D</u> <u>ILSEU-G0250-5</u> <u>ILSEU-G0250-D</u> <u>ILSEU-G0500-5</u> <u>ILSEU-G0500-D</u> <u>ILSEU-G0500-D</u> <u>ILSEU-G1240-D</u> <u>ILSEU-G1240-D</u> <u>ILSEU-G1360-5</u> <u>ILSEU-G1360-5</u> <u>ILSEU-G1360-5</u> <u>ILSEU-G1000-D</u> <u>ILSEU-G1048-D</u>