

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 certificate.

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

	rm	

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 Ω

03 Stainless Steel
iton
16L Stainless Steel
lousing & process connection, "O" ring eal, diaphragm
-wire - limits at 28mA -wire - typical 6mA
pprox 3.5oz (100g)
ny, small zero shift when tilted through 90
→ 100 x 10 ⁶ cycles
50MOhms at 50Vdc

No damage but also no function
CE Compliant
100g / 11s
10g RMS (20 - 2000Hz)
-40°C to +125°C
-20°C to +80°C
-40°C to +125°C
+20°C to +80°C
<±0.04% /FS/°C
<-0.015% /°C

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ISO9001 CERTIFIED

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ILSEU series

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Output Signa	al 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)

