

### **ILSE** series

## External Mount Hydrostatic Level Transmitter



The external mount hydrostatic level transmitter, ILSE, has a piezo-resistive silicon pressure sensor which is an oilfilled 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 1mWG to 10 mWG

Input Pressure Ranges						
Nominal level, Gauge,	mWG	1	2.5	5	7	10
Permissible Overpressure	mWG	20	20	20	50	50

#### Suitable applications

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

#### Performance

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

**Electrical Protection** 

Supply reverse polarity Electromagnetic compatibility

**Mechanical Stability** 

Shock

Vibration

Material Specifications	
Housing "O" ring seals Diaphragm Media wetted parts	303 Stainless Steel Viton 316L Stainless Steel Housing & process connection, "O" ring
Miscellaneous	seal, diaphragm
Current consumption	2 -wire - limits at 28mA 3-wire - typical 6mA
Weight Installation position Operational Life Insulation resistance	Approx $100g$ Any, small zero shift when tilted through $90^{\circ}$ > $100 \times 10^{6}$ cycles > $50M0hms$ at $50Vdc$

ISO9001certified

**Temperatures & Thermal Effects** -40°C to +125°C Media Temperature **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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No damage but also no function

**CE Compliant** 

100g / 11s

10g RMS (20 - 2000Hz)

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ILSE 2018



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<b>Output Signa</b>	ıl 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	
ILSE-G0100-5	0 - 1mWG	4-20mA	
ILSE-G0250-5	0 - 2.5mWG	4-20mA	
ILSE-G0500-5	0 - 5mWG	4-20mA	
ILSE-G0700-5	0 - 7mWG	4-20mA	
ILSE-G1000-5	0 - 10mWG	4-20mA	
ILSE-G0100-D	0 - 1mWG	0.5 to 4.5V 3Wire	
ILSE-G0250-D	0 - 2.5mWG	0.5 to 4.5V 3Wire	
ILSE-G0500-D	0 - 5mWG	0.5 to 4.5V 3Wire	
ILSE-G0700-D	0 - 7mWG	0.5 to 4.5V 3Wire	
ILSE-G1000-D	0 - 10mWG	0.5 to 4.5V 3Wire	



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