ILSEU series

External Mount Hydrostatic Level Transmitter

- 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

<table>
<thead>
<tr>
<th>Nominal level, Gauge</th>
<th>inchWG</th>
<th>40</th>
<th>100</th>
<th>200</th>
<th>280</th>
<th>400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permissible Overpressure</td>
<td>inchWG</td>
<td>800</td>
<td>800</td>
<td>800</td>
<td>2000</td>
<td>2000</td>
</tr>
</tbody>
</table>

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

Performance

Accuracy (Non-Linearity & Hysteresis) <±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]kΩ 3-wire R_{max} = 10kΩ
Influence Effects Supply <0.005% FS / 1V Load 0.05% FSO / kΩ

Material Specifications

- Housing 303 Stainless Steel
- “O” 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 > 50MΩms at 50Vdc

Electrical Protection

- Supply reverse polarity No damage but also no function
- Electromagnetic compatibility 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

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## ILSEU series

**External Mount Hydrostatic Level Transmitter**

### Output Signal and Supply Voltage

<table>
<thead>
<tr>
<th>Wire system</th>
<th>Output</th>
<th>Supply Volts</th>
<th>Connection</th>
<th>Pin No. (Large plug and socket)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-wire</td>
<td>4-20mA</td>
<td>9-32Vdc</td>
<td>+ve Supply</td>
<td>Pin 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-ve Supply</td>
<td>Pin 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ground</td>
<td>Earth pin</td>
</tr>
<tr>
<td>3-wire</td>
<td>0.5 - 4.5Vdc (non-ratiometric)</td>
<td>9-32 Vdc</td>
<td>+ve Supply</td>
<td>Pin 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-ve Supply</td>
<td>Pin 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>+ve Output</td>
<td>Pin 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ground</td>
<td>Earth Pin</td>
</tr>
</tbody>
</table>

### Part Numbers and Specifications

#### 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)*