An immersed Electronic Level Transmitter for sea water application –

The PL3702C-P Electronic Level Transmitter is a linearized, ceramic device specially designed for sea water application. It features a sensor housing in composite material IP68-rated which avoids the electro chemical corrosion and sea water organic deposits. The polyester remote electronics box includes an amplifier with zero and span adjustment.
## Technical Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td><strong>Range</strong></td>
<td>120 mbar to 4 bar.</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>± 0.3% FS at 20°C</td>
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<tr>
<td><strong>Overpressure</strong></td>
<td>6 bar</td>
</tr>
<tr>
<td><strong>Output signal</strong></td>
<td>4-20 mA, 2-wires.</td>
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</tbody>
</table>
| **Protection class** | - Sensor: IP68  
                        - Remote box: IP66                                     |
| **Intrinsic safety** | IECEx, ATEX.  
                      II 1 G D  
                      Ex ia IIC T6 Ga or Ex ia IIB T6 Ga  
                      Ex ia IIIC T80°C Da IP66/67 (Max 50m cable between sensor and remote electronic box). |
| **Power supply**| 12-28 Vdc                                               |
| **Operating ambient temperature** | -20°C to +70°C                                          |

## Special Features

**Material:**
- Remote box: Polyester Sea water resistant.
- Sensor: Composite.
- Diaphragm: Ceramic.
- Top tank fitting: Stainless steel 316L.
- Bracket fixation: Stainless steel 316L.
- Cable: Polyethylene (fire retardant).

Recommended zener barrier for installation in hazardous area: MTL7787+.
Sensor up to max 60°C
Polyethylene cable up to max 60°C (standard).

## Mechanical Fittings & Dimensions

- Top Tank fitting: 1/2” NPT
- Zero line: 2 holes Ø 7
- Bracket fixation: Ø49 x 175
- Cable Ø 8mm
- Length custom-made (50m max).
- PG 13 (cable Ø 5.5 to 12 mm)
- PG 16 (cable Ø 7.5 to 14 mm)

Note: cable length needs to be specified 8 weeks before delivery.

## Mechanical Connection

- Brown: To ceramic cell
- Blue: 12-28 VDC
- Red: 4-20mA signal
- Top tank fitting
- 1/2” NPT

## Electrical Connection

<table>
<thead>
<tr>
<th>Documentation Type</th>
<th>Document Code</th>
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</thead>
<tbody>
<tr>
<td>Installation manual</td>
<td>MI5090</td>
</tr>
<tr>
<td>Technical manual</td>
<td>NT5090</td>
</tr>
<tr>
<td>Maintenance manual</td>
<td>MM5090</td>
</tr>
</tbody>
</table>

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