Series 600
Tank Contents Gauges

No pneumatic or electrical power required
Completely safe in hazardous environments
Sensor fully submersible or externally mounted
Simple and versatile installation
Sea Water, Oil and Chemical Resistant
Marine Certifications (LRS, GL, DNV, BV, RMRS, etc.)
Global Engineering Support (44 locations)

Overview

The Series 600 Self Powered Tank Contents Gauges have been designed specifically for Marine and Industrial applications. The instruments are completely automatic and provide remote continuous indication of tank contents.

Tank sensors are available in two different materials; mild steel is typically used for oils and stainless steel is used for all other liquids.

The versatile methods of mounting and positioning of the sensor, internally or externally, meet all installation requirements. Detachable capillary is optional.

Indicators are of stainless steel construction. Calibration may be in any unit of mass, volume or depth of liquid. Each scale is individually calibrated and hand painted to ensure a high degree of accuracy. Dual scales are available as required.

The mounting adaptability of the Series 600 makes it ideally suited for use in all tanks onboard ship, and for a wide range of industrial applications from Water to stringent Chemical processes.

Mounting Options
Specifications

**Measurement characteristics**

- **Pressure range**: 0...0.3 to 0...60 mH₂O
- **Overpressure**: Minimum 100% FS
- **Accuracy**: <1% FS

**Temperature characteristics**

- **Operating Temperature**: -30°C...175°C
- **Storage Temperature**: -30°C...175°C

**Materials specification**

- **Sensor Body**: Brass, Mild Steel, Stainless Steel
- **Indicator**: Stainless Steel
- **Capillary - Internal**: Copper sheathed in Stainless Steel tube
- **Capillary - External**: Copper sheathed in Terylene reinforced PVC tube

**Electrical specification**

- **Power Supply**: None required
- **Calibration**: Any unit of mass, volume, depth of liquid

**Capillary**

- **Max Length**: 50m (40m with 2 indicators)
- **Detachable**: Yes (at either sensor or indicator)

**Sensor Connections**

- **External**
  - Model 600ES: ¾” BSP running nut
  - Model 600SM: DN80 Flange
- **Internal**
  - Model 600IM: U plate bracket
  - Model 600IS: Pole (fixed to flange)
  - Model 600IST: Pole (¾” BSP male thread)
  - Model 600ST: Chain suspension

**Physical characteristics**

- **Weight**
  - Model 600ES: 5Kg
  - Model 600IM: 12Kg
  - Model 600IS: 12Kg
  - Model 600IST: 12Kg
  - Model 600SM: 7Kg
  - Model 600ST: 6Kg
- **Dimensions**: See schematics

**Ordering Details**

Please specify the following information when requesting a quotation or placing an order:

<table>
<thead>
<tr>
<th>Tank Name</th>
<th>Tank Text</th>
<th>EXAMPLE TK NO.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>ES, IM, IS, IST, SM, ST</td>
<td>ES</td>
</tr>
<tr>
<td>Indicator Type</td>
<td>Wall, Panel Mounted</td>
<td>Wall Mounted</td>
</tr>
<tr>
<td>Indicator Size</td>
<td>100mm, 160mm</td>
<td>160mm</td>
</tr>
<tr>
<td>Capillary Length - Internal</td>
<td>m (Model IM only)</td>
<td>-</td>
</tr>
<tr>
<td>Capillary Length - External</td>
<td>m</td>
<td>3m</td>
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<tr>
<td>Scale</td>
<td>m, m³, litres</td>
<td>m³</td>
</tr>
<tr>
<td>Range - Linear</td>
<td>L, W, H</td>
<td>-</td>
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<tr>
<td>Range - Non-Linear</td>
<td>Tank Tables</td>
<td>See Tank Tables</td>
</tr>
<tr>
<td>Sensor Height</td>
<td>mm</td>
<td>50mm</td>
</tr>
<tr>
<td>Liquid</td>
<td>Water, Oil, etc.</td>
<td>Sea Water</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Fresh Water = 1.00</td>
<td>1.025</td>
</tr>
<tr>
<td>Temperature</td>
<td>°C</td>
<td>20°C</td>
</tr>
<tr>
<td>Optional Extras</td>
<td>Bulkhead Fitting</td>
<td>-</td>
</tr>
<tr>
<td>Marine Certification</td>
<td>BV, DNV, GL, LRS, etc.</td>
<td>BV</td>
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</tbody>
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