LEVEL CONTROL WITH RESISTIVE PROBES
STE / BES

- For all conductive liquids
- From 1 to 5 electrodes
- All motionless parts
- Adjustable lengths on site
- Maximum pressure 15 bar
- Maximum temperature 110°C
- Process connections in PPh or stainless steel 316
- Rods are in stainless steel or titanium

**PRINCIPLE**

The difference of electrical resistance when electrodes are immerged in the conductive fluid switches a contact relay ES 2001 (please refer to documentation 530-01).

**APPLICATIONS**

Control or regulation of level fluid in open or closed tanks, flumes, etc.
Detection of fluid or lack of fluid in pipes, fluid leakage, pumps protection...

**DESCRIPTION**

Each probe is made of 3 main parts:
- The housing: in PPh with cable gland 9 mm. Protection IP 65.
- Process connection: assures also electrical insulation between the rods, and with the tank. Material: PPh or stainless steel 316 Ti.
- Rods: 1 to 5 according to the model. Material: stainless steel 316 L or titanium (on request). Standard lengths are 500 to 2 000 mm and should be adjusted on site.

**MOUNTING**

A vertical mounting above the tank is the best; if it is not possible, the limit angle is 45°C, downward. Caution: it is necessary to avoid any short circuit due to the liquid standing between two rods.
Verify concordance of pressure, temperature and chemical resistance of the probe with the process conditions. Caution: it is necessary to avoid damages due to vapours and condensation. Our technicians may help you to choose a model.
If possible, do not fit a plastic connection probe on metal: it could destroy the thread probe; blocking nuts are available.
If there are fluid turbulences, take care of accidental rods touching originating false signals; sheathed rods are available, or a tranquilization area could be a solution.
If the fluid creates deposit or vapours exist: it is necessary to avoid any electrical short circuit between rods with sheathed rods.
To determine number of necessary rods: 1 for each level + 1 reference rod if the tank is not of an electrical conductive material.
## CODES AND REFERENCES

<table>
<thead>
<tr>
<th>Rods Num</th>
<th>BSP [inch]</th>
<th>Reference</th>
<th>Code number</th>
<th>Reference</th>
<th>Code number</th>
<th>Housing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>½&quot;</td>
<td>STE/A/PPH</td>
<td>540 110</td>
<td>STE/A/I</td>
<td>540 210</td>
<td>PP (IP 65)</td>
</tr>
<tr>
<td>2</td>
<td>1 ¼&quot;</td>
<td>STE/Z/PPH</td>
<td>540 120</td>
<td>STE/Z/I</td>
<td>540 220</td>
<td>PP (IP 65)</td>
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<tr>
<td>3</td>
<td>1 ½&quot;</td>
<td>STE/D/PPH</td>
<td>540 130</td>
<td>STE/D/I</td>
<td>540 230</td>
<td>PP (IP 65)</td>
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<td>4</td>
<td>2&quot;</td>
<td>STE/V/PPH</td>
<td>540 140</td>
<td>STE/V/I</td>
<td>540 240</td>
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<tr>
<td>5</td>
<td>2&quot;</td>
<td>STE/F/PPH</td>
<td>540 150</td>
<td>STE/F/I</td>
<td>540 250</td>
<td>PP (IP 65)</td>
</tr>
</tbody>
</table>

**Common features**
- Stainless steel rods Ø 4 mm threaded M4
- Standard rod length: 500 mm
- Maximal length: 2 000 mm
- Over 2000 mm please see the type HE/HS resistive probes (documentation 542)

## SPECIAL MODELS

- Rods in titanium: normally with PPh process connection
- Rods are 5 mm diameter, thread M5
- Sheath polyolefin: to avoid short circuit between rods (max 100°C)

## DIMENSIONS

### STE / A / …

- Common features
  - Stainless steel rods Ø 4 mm
  - Threaded M4
  - Maximal length: 2 000 mm
  - Over 2000 mm please see the type HE/HS

### STE / Z / … – STE / D / …

- Common features
  - Stainless steel rods Ø 4 mm
  - Threaded M4
  - Maximal length: 2 000 mm
  - Over 2000 mm please see the type HE/HS

### STE / V / … – STE / F / …

- Common features
  - Stainless steel rods Ø 4 mm
  - Threaded M4
  - Maximal length: 2 000 mm
  - Over 2000 mm please see the type HE/HS