

Resistive level detectors STS



- For aggressives and conductive chemicals
- PVC or PVDF
- Up to 5 electrodes
- Custom manufacturing
- Fixed alarming level

APPLICATIONS

Level control of electrically conductive and corrosive liquids:

- Metal finishing industry
- Control of presence or absence of liquid (leak detection, empty piping etc.)
- Pump automation (fill or drain) with ES 2001 relay

DESCRIPTION

The STS level probe with a relay ES 2001, detects a level of a conductive liquid.

The longest electrode is used as the reference. The electrical contact occurs when the reference electrode and another electrode are both in contact with the liquid. Then, the current in detection loop provokes through the relay ES2001, an amplified ON/OFF signal (see data-sheet 530-01).

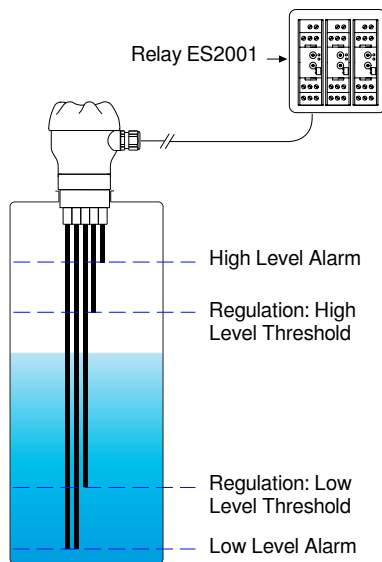
Acid resistant materials:

With Hastelloy G30 electrode ends and PVC or PVDF stems, the STS probes are useful for level control of most acids.

Other electrode ends such as Tantalum, other stem materials (PTFE or PPH), are available on request.

TECHNICAL FEATURES

| Type | STS/A | STS/Z | STS/D | STS/V | STS/F |
|-----------------------|------------------------------|-------|-------|-------|--------|
| Number of electrodes | 1 | 2 | 3 | 4 | 5 |
| BSP fitting | 3/4" | 2" | 2" | 2" | 2" 1/2 |
| Flange PN 10 | ND 25 | ND 65 | ND 65 | ND 65 | ND 80 |
| Min. length (L in mm) | 50 | 70 | 70 | 70 | 70 |
| Max. length (in mm) | 3000 | | | | |
| Temperature | See corrosion table | | | | |
| Max. Pressure | 4 bar at 20 °C | | | | |
| Head housing | In PBT, IP 65 | | | | |
| MATERIALS | | | | | |
| Electrode | Hastelloy G30 | | | | |
| Stem and fitting | PVC (max. 55 °C for water) | | | | |
| | PVDF (Max. 110 °C for water) | | | | |



Installation example

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STS

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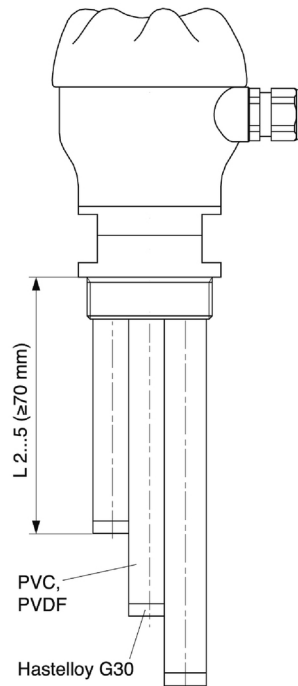
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CODE NUMBERS AND REFERENCES

| Reference | Code for PVC | Code for PVDF |
|----------------------|--------------|---------------|
| STS / A / ... / G 30 | 543 010 | 543 110 |
| STS / Z / ... / G 30 | 543 020 | 543 120 |
| STS / D / ... / G 30 | 543 030 | 543 130 |
| STS / V / ... / G 30 | 543 040 | 543 140 |
| STS / F / ... / G 30 | 543 050 | 543 150 |

NOTE: Stems are supplied at the requested lengths (± 2 mm).
 By construction (solvent welding on PVC, welding for PVDF) stems cannot be adjusted on site.
 Procure to order the necessary quantity of relays ES 2001.



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