RESISTIVE LEVEL PROBES
STS

- **For aggressive and electrically conductive liquids**
- **Construction: PVC or PVDF**
- **Manufacture on request upon drawings**
- **Fixed alarm distances**
- **4 contacts as a maximum**

PRINCIPLE

The longest electrode is used as the reference; therefore, a STS probe with five electrodes allows a four level detection. For each level detection point, the electrical contact is done when the referring electrode and the reference are on contact with the fluid at the same time. The relay ES2001 (see the data sheet 530) convert this detection trough a 500 VA relay.

APPLICATIONS

Designed for control and regulation of fluid levels in open tank by electrodes, for instance acid storage tanks, barrage, waste water treatment plant, etc. and detection of fluid in a pipe, leakage etc. Construction materials are convenient for highly aggressive fluids such as hydrofluoric acid.

SPECIFIC FEATURES

With Hastelloy G30 electrode terminals and PVC or PVDF stems, the STS probe is useful for most acids. Others terminal materials, SS316 or Tantalum and other material stems such as PTFE or PPH are available on request.

TECHNICAL FEATURES

Model	STS/A	STS/Z	STS/D	STS/V	STS/F
N^{br} of electrodes	1	2	3	4	5
Connection	¾" MG	2" MG	2" MG	2" MG	2" ½ MG
PN 10 flange	DN 25	DN 65	DN 65	DN 65	DN 80
Minimal length	50 mm	70 mm	70 mm	70 mm	70 mm
Maximal length			3000 mm		
Materials	Stems & connection or flange: PVC or PVDF Electrode: Hastelloy G30				
Temperature	Check the corrosive compatibility limits				
PVC	60°C as a maximum (for water)				
PVDF	130°C as a maximum (for water)				
Pressure	4 bar as a maximum (water at 20°C)				
Housing	PBT housing, IP 65 - 9 mm cable gland output				

CODE NUMBERS AND REFERENCES

MODEL	PVC	PVDF	Electrode terminals
STS / A / . . . / G 30	543 010	543 110	G30
STS / Z / . . . / G 30	543 020	543 120	G30
STS / D / . . . / G 30	543 030	543 130	G30
STS / V / . . . / G 30	543 040	543 140	G30
STS / F / . . . / G 30	543 050	543 150	G30

NOTES: Probes are delivered on required length (± 2mm) – Probes cannot be adjusted on site. – Verify the correct necessary number of relays.

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BAMO MESURES
22, Rue de la Voie des Bans - Z.I. de la Gare - 95100 ARGENTEUIL
Tél : (+33) 01 30 25 83 20 - Web : www.bamo.fr
Fax : (+33) 01 34 10 16 05 - E-mail : info@bamo.fr