

Resistive level probes STE

Instructions manual

PRINCIPLE

The differences of electrical resistance when electrodes are immersed in the conductive fluid switches a contact relay ES 2001.

CAUTION

Installation, initial start-up and maintenance may only be performed by trained personnel. All applicable European and National Regulations regarding installation of electrical equipment must be adhered to.

The device may only be operated under the conditions specified in the operating instructions!

Conductive limit monitors are not suitable for liquids which contain oil or fat, or in which electrically conductive or insulating deposits may be formed.

It is better to install the probe vertically over the tank. As a worst case the device could afford a 45° angle downward with small rods.

Please check the limits for temperature, pressure and chemical compatibility (considering as well the vapours).

In case of a moving fluid, check that the electrodes cannot be in contact each others. To avoid this trouble they should be coated.

MOUNTING

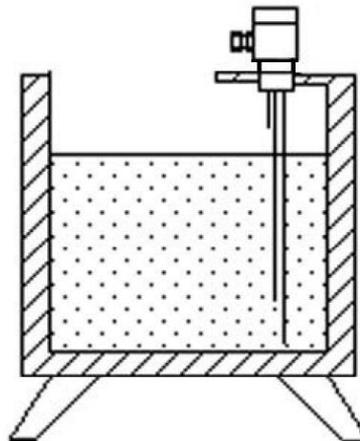
- Open the head housing (anti- clockwise); careful not to loose the o-ring seal.
- Unscrew the cable gland (PG 9 or 11 depending of model) to pass through it the cable. Screw it back, water-tight.
- In the head housing, wire on each screw connector the corresponding cable).
- Once the rods are of a correct length, screw them on the bottom of the probe.

Probe fitting:

On a closed tank, the probe is screwed on a connection on the tap, before to fit the cable.

On an open tank, the probe is fixed on a plate by screwing a counter nut.

Once the probe is fixed, close the head housing.



MAINTENANCE

The device is maintenance-free if used for its intended purpose. It is necessary to prevent a bad surprise to check sometimes the aspect and physical aspect of the system.

When a signal trouble occurs, check the rods, the wiring and the relay (using a multi-meter).

BAMO MESURES

22, Rue de la Voie des Bans - 95 100 ARGENTEUIL - FRANCE

Tel.: +33 1 30 25 83 20 - E-mail: info@bamo.fr

Fax: +33 1 34 10 16 05 - <http://www.bamo.eu>

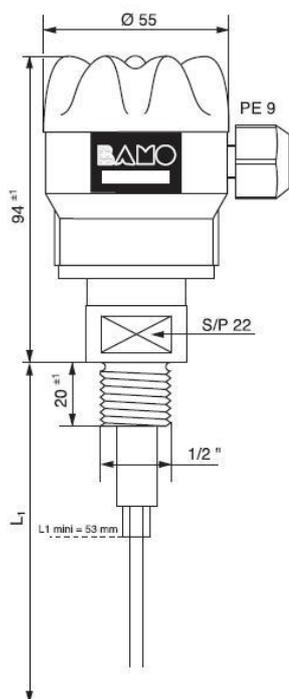
LEVEL CONTROL WITH
RESISTIVE PROBES
STE / BES

MSE

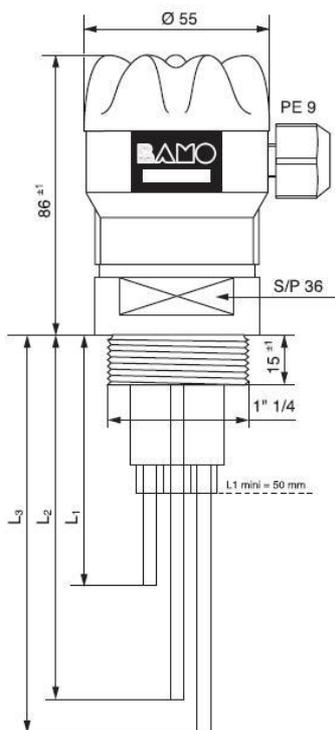
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DIMENSIONS

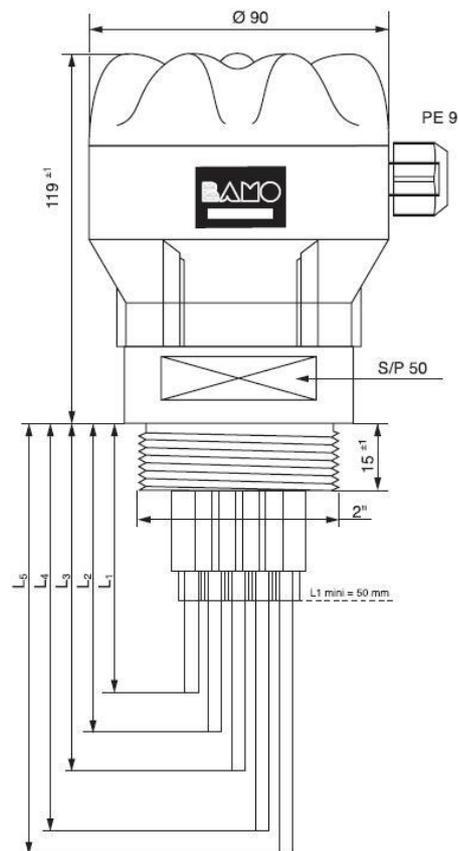
STE / A / ...



STE / Z / ... STE / D / ...



STE / V / ... STE / F / ...



TECHNICAL FEATURES

PROBES STE...

Maximal temperature:	100°C
Maximal pressure:	6 bar at 20°C (1 bar at 100°C)
Process connection:	depending of the model
Media:	electrically conductive liquids
Construction	Head housing: PPH, stainless steel 316 Ti Rods: stainless steel 316, Titanium
Automation:	ES2001 relay

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