

## TS/O/... mercury-free immersion probes

### for automatic control of liquid levels

These immersion probes consist of a probe tube on which one or several floating switches are mounted and of a terminal box to which the floating switches are connected.

These units are particularly suitable for fuel oil tanks, diesel-fired emergency power generators and hydraulic oil tanks.

**These units are not suitable for use in turbulent liquids (e.g. in stirrer tanks).**

#### Functional description based on a switching example: automatic filling of a tank

The bottom floating switch falls together with the liquid to the minimum level and acts on the contactor when it falls below the horizontal. Liquid is then pumped into the tank. When the maximum level is reached, the top floating switch rises above the horizontal, the contactor holding circuit is interrupted, and the filling process is stopped.



Technical data	TS/O/...
Probe tube material	PP
Probe tube diameter	see table below
Probe tube length	depends on the size of the tank
Screw-in nipple (on request)	PP
Terminal box	PP, A 307: 120 x 80 x 55 mm, protection class IP 65
Mounting orientation	vertical
Admissible temperature range	depends on the type of cable (see page 1)
Pressure resistance	for pressureless applications only
<b>Mounted floating switches</b>	<b>SSP ...</b> (exact type designation see page 1, please always state when ordering)
Electrical data	see page 1

Type designation	Number of mounted floating switches	Type of mounted floating switches	Probe tube diameter	Screw-in nipple (on request)
TS/O/1 x SSP ...	1	SSP ...	16 mm	1 1/2" BSP or 2" BSP
TS/O/2 x SSP ...	2		20 mm	2" BSP
TS/O/3 x SSP ...	3		25 mm	2" BSP
TS/O/4 x SSP ...	4		25 mm	2" BSP
TS/O/5 x SSP ...	5		25 mm	2" BSP

... = to be specified

**On request:**

- with more than 5 mounted float switches,
- with adjustable screw-in nipple.

**The above equipment will be manufactured in accordance with customer specifications.**

When specifying the switching points of the immersion probes, please note that

- **when the liquid level rises**, the contact of the floating switches is not activated when the floating switches reach **the horizontal position**, but is activated as shown in the diagram on page 1.
- **When the liquid level falls**, the contact of the floating switches is activated slightly below **the horizontal position**.