

TLS100: Tube Level Sensor



Features and Benefits:

- Suitable for use with aggressive media and unusual container designs and materials through non-contact level monitoring
- Accuracy, reliability and reproducibility provided by all-electronic circuitry
- Ease of installation through robust snap-on clips with protective surface coating
- Compact housing
- No movable parts ensures a long life span and maintenance costs

Technical Information

Tube Sensor TLS100.

The new E-T-A tube sensor TLS100 is the ideal solution for level sensing and monitoring in complex or sophisticated applications. Reliable limit value monitoring without medium contact, ease of installation and maintenance, and a long life span are indispensable requirements when selecting level sensors for applications in the food stuffs industry, in the chemical and pharmaceutical industries, and for medical

equipment. The TLS100 features a small and compact design, and is extremely robust. It works on the capacitive measuring principle and monitors MIN or MAX levels of water and similar solutions without making contact with the medium. A transistor output provides a switching signal. Solid state electronic circuitry ensures extremely precise, reliable and maintenance-free operation without the

use of any mechanical parts. Key functions of the TLS100, i.e. switch point, MIN or MAX monitoring, plus- or minus-switching, and response delay are programmed on a micro-controller which is at the heart of the product. The TLS100 is simply snapped onto the tube or pipe container. By means of by-pass tubes, level monitoring with containers with difficult designs or materials can also be achieved.

Technical data

Medium	water and water-like solutions
Operating voltage	DC 12 V/DC 24 V (DC 9...36 V)
Switching output	max 1A, short circuit proof and overload proof, plus- or minus-switching
Adjustment	via 15-step potentiometer
Visual indication	LED
Ambient temperature	-20 °C...+80 °C
Connection	cable 3x0,25 mm ² or M8 plug, 3-pole
Tube material	plastic, glass, up to 4 mm wall thickness
Tube diameter	10 mm / 15 mm / 25 mm

Typical applications

Automatic level monitoring of

- de-ionised water in waste water containers of fuel cells
- blood bottles and saline solution in intravenous drips in medical treatment
- water level in storage containers of sterilising equipment
- nickel bath and nitric acid containers for surface treatment of metals in the chemical industry

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Tube Sensor TLS100 cable version



Tube Sensor TLS100 plug version