

Level transmitter type DLT1

Application and function

As level transmitter together with the IGEMA level probe type EC6 for a 4-20mA output which is proportional to the liquid level, e.g. in steam boilers, condensate collectors resp. tanks with liquids where the relative permittivity is above or equally 5.

Function DLT1

As the water level rises the capacitance between rod and protection tube wall increases. The capacitance is measured by the pre-amplifier of the capacitive probe EC6 and transmitted as a signal to the level transmitter DLT1. A rising level gives an increasing signal.

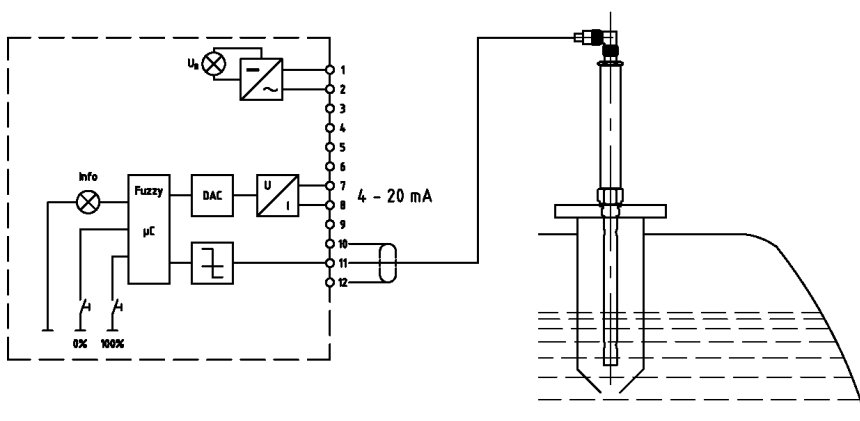
On the input stage of the level transmitter, the signal is processed and analysed by a microcontroller. The prestored limit values 0% and 100% fixes here the windows for the input signal. The vectorised input signal is transmitted by the principle of pulse-width-modulation (PWM) into an output signal 4-20mA and available on the terminal fur use.

The indicator lamp "U_B" shows power supply on.

Setting by buttons "0%" and "100%"

The indicator lamp "INFO" shows the state of the transmitter:

- setting signallamp "INFO" on
- failure signallamp "INFO" flashing
- operation signallamp "INFO" off



Technical basic equipment

- DLT1 is delivered in a plastic plug-in housing for installation in control panels
- Fixation on standard rail 35 mm according to DIN EN 50022 or directly screwed to chassis plate

Available (optional) versions

- Limit switch MR50
- Controller KS90-1
- Light band indicator LB16

Technical data

Component mark	TÜV-WRS-04-371
CE-mark	0035
Power supply	230V ± 10% / 50-60 Hz ²⁾
Input	ca. 4,5 VA
Fuse	80 mA/T
Protection as per DIN EN 60529	IP40 ¹⁾
Allowable ambient temperature	0 – 60° C
Transmitter output	4-20 mA
Load	max. 300 Ω

¹⁾ according to the German regulations VdTÜV-Wasserstand 100, 4.90 a protection of IP54 has to be maintained in the boiler area

²⁾ other values on request

Wiring between DLT1 and EC6 should be carried out in screened cable

–**MIL-C-17F-RG 059BU**- max. length 150 m

Connecting cable between transmitter output 4-20 mA and other instruments –**LICY 0,5 mm²**-unlimited length

