

Continuous Water Level Transmitter DLT2

Application and function

The DLT2 continuous fill level transmitter is intended for use in combination with the EC 8 level probe as a level transmitter for the output of an output current proportional to the fill level in the fluid tank (4 mA .. 20 mA).

It is intended for use in steam boilers or other fluid tanks.

The product meets EC Directive 2014/68/EU (PED).

Regulations applied: corresponding DIN EN standards.

Functioning of DLT2

The fill level transmitter DLT2 works in conjunction with the IGEMA EC 8 level probe on the basis of the capacitive fill level method of measurement whereby the electric conductivity of the medium is used. The conductivity of the medium is measured in $\mu\text{S}/\text{cm}$. For the secure functioning of this method a minimum conductivity of the substance to be measured is required.

Via the capacitive fill level method of measurement the continuous determination of the fill level is possible. The stored limits for low level (0%) and high level (100%) define the range for the determination of the current fill level. This value is converted into an output current at the 4mA .. 20mA power interface.

The transmitter supplies power to the level probe, which can be fitted into the tank, and evaluates its signal.

The 4mA .. 20mA output signal can be assessed at the terminals for further processing.

At an extra relay output the current output can be connected or a failure signaling can be attached.



Standard technical equipment

- DLT2 in a plastic plug-in housing for easy fitting into switch cabinets
- quick fitting with a spring catch for the DIN EN 50022 standard 35mm carrier rail or for screw fixing on a mounting plate

Technical data

Supply voltage	230V - 15% + 15% / 50/60Hz	
Power consumption	3 VA	
Device fuse	63 mA/T	
Protection class according to DIN EN 60529	IP40 ¹⁾	
Allowable ambient temperature	0° C – 55° C	
power interface / output current	4-20 mA	
load	500 Ω	
Extra relay ²⁾	Switching voltage	max. 250 VAC
	Switching current	max. 4 A resistive
		max. 0,75 A inductive $\cos\phi$ 0,5
Electrical conductivity of the liquid	$0,5 \mu\text{S}/\text{cm} \leq \rho \leq 10.000 \mu\text{S}/\text{cm}$	
total length of lead	max. 250m	

¹⁾ according to DIN EN 12952-11, 4.3.4 protection class IP54 is to be ensured in the boiler area (e.g. switch cabinet)

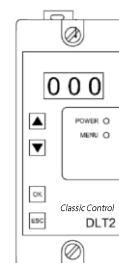
²⁾ During switching operations the load profile of the relay is to be observed! For large loads use contactor! Relay used: Schrack V23092-A1024-A301

The DLT2 carries out periodic self-testing.

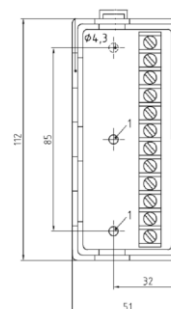
It is expected that because of the non-linear tank geometry the fill level (fluid quantity / volume) does not behave in a linear way to the fill depth / fill level!



Front view



Base with connecting terminals



Side view

