



## *Liquid Level Indicator*

*For safe measuring and precise indication of liquid level inside storage tanks*



### Liquid level indicator – a must for every storage tank

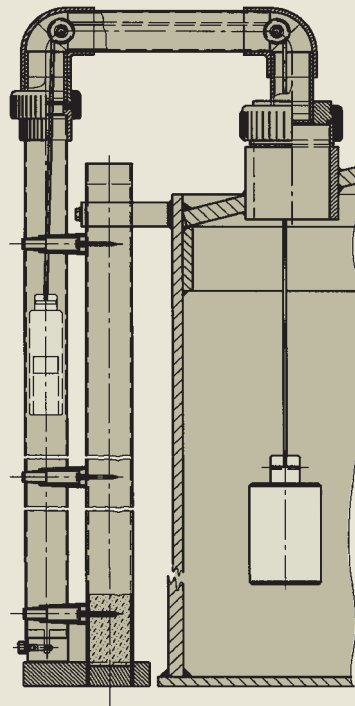
This mechanical measuring device operates according to the float principle. All components are made of chemical resistant materials, i.e. PE, PP and PVC. The liquid level indicator can be attached to nearly all standard tank types.

The polyethylene float swimming inside the tank is connected by a rod to the counterweight acting as indicator. This counterweight is guided in a glass-clear PVC-pipe which is fixed to a PVC-square profile outside of the storage tank or retention tank. At its top the PVC pipe ends in a head piece with two 90° angles equipped with easily running rollers for a smooth conveying of the connecting rod. The PVC pipe is closed at the bottom. The PVC square profile is fitted with numbers and graduation marks as metering bar for the reciprocal indication of tank contents. All markings correspond to the tank capacity.

### Safe operation of the liquid level indicator.

Float and counterweight are evenly balanced allowing the measuring system to operate perfectly even with filling media of different density.

As the float is not guided inside the tank, it will not stick or get caught. So its troubleless performance is assured. A possible deviation of the float by 25 cm with a tank height of 2 meters will



cause a discrepancy of less than 1 % only.

### Connection to an electrical monitoring system:

The liquid level indicator can be equipped with bistable change-over contacts at the guiding tube and a magnetic inlay in the counterweight. So important data for safe operation of the plant can be transmitted to the control system as e.g. several limit switches to be selected freely.

### Design, function test and maintenance:

The float can easily be removed through the nozzle in the tank roof. The PVC pipe is accessible

in its upper section to test the connecting rod. This inspection outlet is closed by a specially cut pipe for the standard version and by a thread connection for the gastight version. The foot end of the PVC pipe is closed by a plug with the standard version and with a release system for condensed liquid with the gastight version.

### Options:

- gastight version with integrated condensate release
- Connecting nozzle in special construction
- perforated immersion tube for the float when a mixer is installed

### Technical data for bistable changeover contact:

Degree of protection:	IP 65
Ambient temperature:	-20° up to 70° C
Switching capacity:	max. 500 VA AC
respectively:	DC 60 W/VA/ min. 2 W/VA
Switching voltage:	max. 250 V/ min. 12 V
Switching current:	max. 6 (2) A
Switching hysteresis:	ca. 10 - 15 mm (depending on actuating magnet)

Subject to technical alterations

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