



**800 meter  
electrode  
distance !**

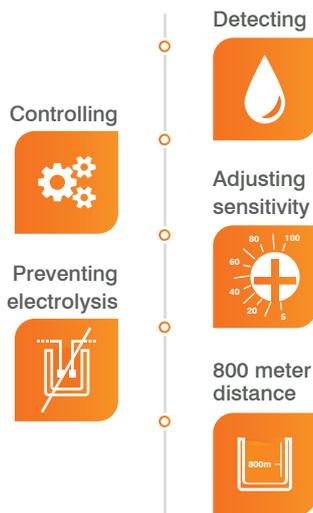
LC3-T ( Liquid Level Controller )

**Klemsan®**

## Defining LC3-T in simple terms

LC3-T is an electronic device which monitors liquid levels in a tank and keeps it into desired limits through relay output. LC3-T is effective solution for very deep applications

### Which actions are executed?



LC3-T has **800 meter electrode distance**. It provides great advantages for deep area applications.

LC3-T **detects** liquid level when it reaches our minimum or maximum limits

It **controls** the actuation of pumps or valves to regulate liquid levels.

**Sensitivity adjustment** provides reliable operation in a variety of conductive liquids.

LC3-T applies AC signal to liquid in order to **prevent and avoid electrolysis**.

### Which market are they used frequently?

- Wastewater treatments
- Pump stations
- Chemically pure water
- Tank level controlling
- Wet well applications

### Benefits and Advantages

- 800 meter electrode distance
- Sensitivity adjustment (2,5-50kΩ)
- Perfect to fit in modular enclosure
- High mechanical endurance
- 36 mm wide housing and compact design
- Self-Extinguishing plastic housing

## Very Deep Water Well Level Control (800m)



LEVEL  
CONTROLLING  
LC3-T



LC3-T can be used to water wells. In addition LC3-T simplifies your work in very deep areas. LC3-T can control water level up to 800 meters.

## Tank Application



LEVEL  
CONTROLLING  
LC3-T



It can be used to control liquid level in a tank. Sensitivity resistance can be adjusted thus there is no need to change models to match different liquid types and concentrations.

## Wastewater Treatments



LEVEL  
CONTROLLING  
LC3-T



Level monitoring and control is a fundamental requirement in any wastewater treatment process. Level controls and instrumentation play an important role in management of wastewater treatment process because operators have only limited or emergency control over treatment plant influent. At this point Klemsan LC3-T controller presents the simplest and most effective solution for wastewater plants.

## Water Storage

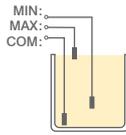
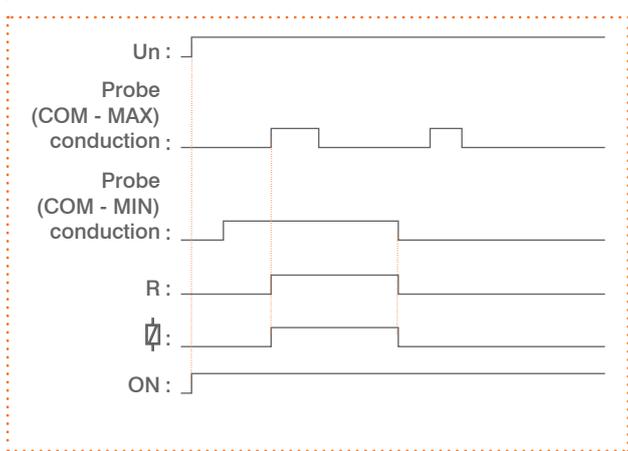


LEVEL  
CONTROLLING  
LC3-T



Level monitoring is essential for large and small water storage tanks in order to prevent overflows and keep water into desired limits

## FIGURE and LED INDICATION

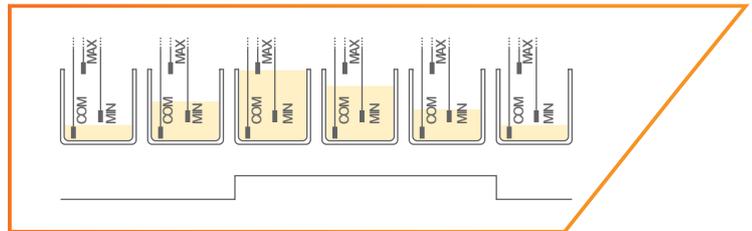


### 3 electrodes mode:

When the level of liquid in the tank reaches to electrode MAX, the output relay is activated and stays in this position even if the level drops below the electrode MAX level. The output relay is deactivated when the liquid level drops below electrode MIN level. Re-activation occurs when the level reaches to the electrode MAX level.

The status change of output relay with respect to liquid level

Output relay contacts 1 - 3 :  
1 - 2 :



## LC3-T



|                              |  |                    |
|------------------------------|--|--------------------|
| Definition                   | Liquid Level Controller  |                    |
| Order Number                 | 270002   |                    |
| Casing Width(mm)             | 36   |                    |
| Connection                   | Screw terminal   |                    |
| Mounting                     | Rail Mount   |                    |
| Supply Voltage               | 185...265V AC  |                    |
| Power Consumption            | < 7VA  |                    |
| Electrode Voltage            | 5VAC>, 160Hz   |                    |
| Output Relay                 | Type   | 1C/O (SPDT)        |
|                              | Max. Ratings   | 10A, 250V; 1250VAC |
|                              | Mechanical Life Time   | $\geq 10^7$        |
| Sensitivity Adjustment Range | 2,5...50k $\Omega$   |                    |
| Maximum cable length         | 800m   |                    |
| Weight                       | 82gr   |                    |
| Protection Class             | IP20   |                    |
| Temperature Range            | -20 to 60 °C (during operation),<br>-40°C .. 75°C (during storage) |                    |



Accessories

Definition

Liquid Level Probe



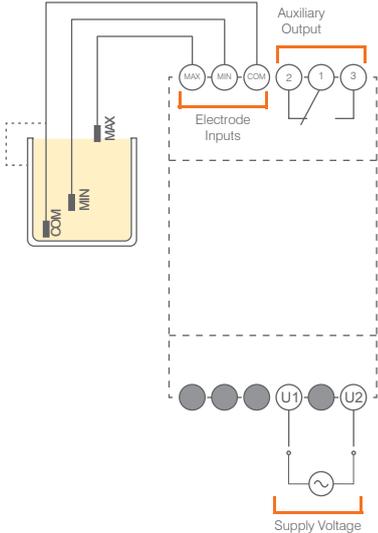
Stock Code

280610

Package Unit

1 pc.

Schematics



Dimensional Drawings

