

# Product Information

## LC 100 - Level Controller 100

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Tank contents indicator with remaining volume check



### Tank contents measurement up to 9.999 litres

LC 100 is an electronic instrument for indication of tank contents in litres and percentage of tank volume. All common tank shapes are supported. The measurement is done contactless using 40 kHz ultrasonic pulses. The installation is very easy. LC 100 is maintenance free and highly reliable.

LC 100 is a direct replacement for the mechanical gauges.

### Features

- Display of remaining empty tank volume
- Precise digital display
- Contact-less measurement
- Long battery lifetime
- Easy installation
- Multiple measurements for best stability

LC 100 evaluates the propagation time of ultra-sonic pulses to detect the fluid level in the tank. Thus mechanical ageing problems cannot arise. All tank forms in common use are supported like cubic, cylindrical tanks, in horizontal or vertical position. From this information the tank contents in litres is calculated, also the average demand per day and the remaining time period based on average demand is derived.

### Applications:

Heating oil, water tanks, rainwater tanks, waste oil tanks, ...

### LC 100 provides the following values:

- Tank contents in litres up to 9.999 litres
- Tank contents in percent of volume
- Remaining empty tank volume in litres – how many litres can be refuelled
- Distance to the fluid surface in cm
- Average demand in litres/day
- Remaining time period in days based on average demand

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### Tank contents indicator with remaining volume check

- Technical specification**

Dimensions (w x d x h): 80 x 80 x 170 mm  
 Screw thread: 1.5 inch (6/4") and 2 inch  
 Weight (without batteries): app. 220 g  
 Housing: colour black, oil resistive  
 Protection: IP 20 as per EN 60529  
 indoor usage only, in cellars, tank rooms etc.  
 Display: LC-display 51 mm x 35 mm,  
 2 lines with 4 digits, 12 and 14 mm high  
 Temperature range: -10°C ... +45°C  
 Power supply: 4 alkaline batteries, type AA, 1.5 V  
 Battery life time: app. 2 years, warning symbol for weak batteries  
 LC 100 is CE-marked and manufactured conform to ROHS requirements.

**Measurement method:**

Principle: Ultra-sonic pulses, 40 kHz, pulse duration: 20 ms  
 Range: 20 cm ... 250 cm (distance to the fluid surface)  
 Uncertainty: ±1 cm

**Installation:** Screwing in into the tank thread  
 1.5 inch (6/4") and 2 inch

**Standard mode:**

Every 24 hours a measurement is taken, the tank contents in litres and volume percentage will be displayed thereafter.

**Manual measurement mode:**

A button press initiates a single measurement, tank content is displayed- afterwards the LC 100 falls back to power saving mode.

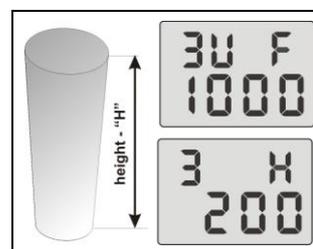
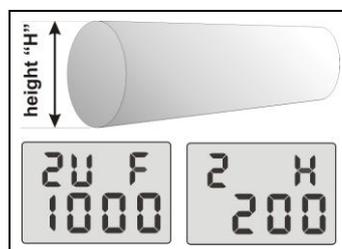
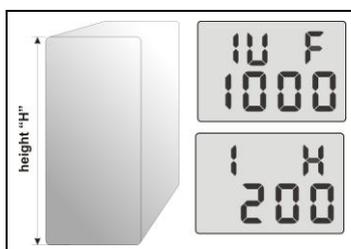
**Power saving mode:**

Display remains on permanently if the display shut-off function is deactivated.  
 Permanent display reduce battery lifetime!

**Tank types: Type 1**

**Type 2**

**Type 3**



**Order reference:**

LC 100 tank contents indicator

Order No.: ST001001

**Scope of delivery:**

LC 100, operating instructions,

DESIGN & DEVELOPMENT BY

