Product Information

LC 100 - Level Controller 100

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 / Facilities
• Liters of tank volume and percent display
• Ullage in Liters
• distance to the tank level indicator sensor in cm
• Precise digital display
• Non-contact measurement
• Easy installation on the tank-top
• 2 threaded for screwing.
• Multiple measurements for maximum 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

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 (incl. batteries):	app. 380 g
Housing:	colour black, oil resistive

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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 pcs. batteries, type AA, 1.5 V, Alkaline
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

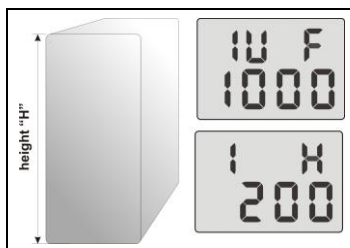|	
Range:	20 cm … 250 cm (distance to the fluid surface)
Uncertainty:	±1 cm
Installation:	Screwing into the tank thread
	1.5 inch (6/4") and 2" inch

Standard mode:

Every 24 hours a measurement is taken. Press "Mode" button, tank contents in litres and volume percentage will be displayed thereafter.
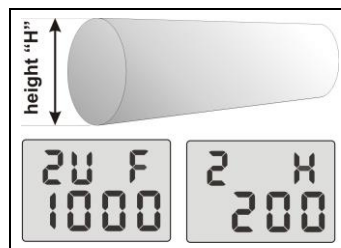
Manual measurement mode:

A button press initiates a single measurement, tank content is displayed- afterwards the LC 100 goes back to power saving mode.
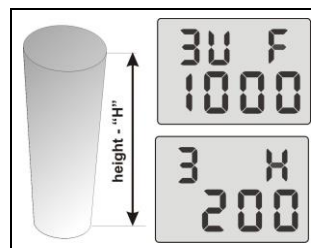
Tank types: Type 1   Type 2   Type 3

Scope of delivery:

LC 100, operating instructions, 4 pcs. batteries 1.5 V, type AA, Alkaline.   **Order No.: ST001001**

DESIGN & DEVELOPMENT BY

ESI
easy software integration

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