

## Product Information

### LC 101 - Level Controller 101

Tank contents indicator with remaining volume check



#### Tank contents measurement up to 9.999 litres

LC 101 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 101 is maintenance free and highly reliable and is supplied permanently from a mains adapter.

LC 101 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 101 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 101 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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#### 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 (wo. mains adapter):	app. 340 g
Housing:	colour black, oil resistive
Protection:	IP 20 as per EN 60529
Display:	indoor usage only, in cellars, tank rooms etc. 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:	mains adapter 230 V AC with Euro plug
LC 101 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

#### Operating modes:

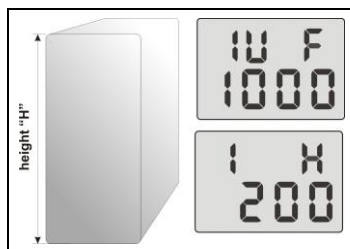
##### Standard mode:

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

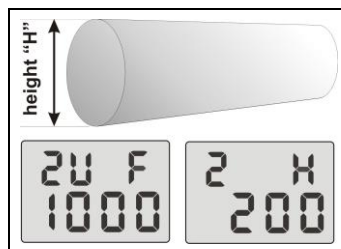
##### Manual measurement mode:

A button press initiates a single measurement, an actual tank content is displayed afterwards

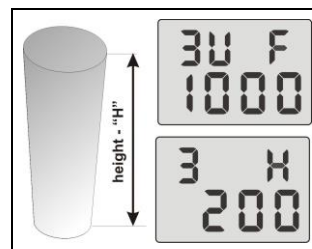
#### Tank types: Type 1



#### Type 2



#### Type 3



#### Scope of delivery:

LC 101, mains adapter 230 V AC with Euro plug, operating instructions.

Order No.: ST001002

DESIGN & DEVELOPMENT By



Document: 03 2012 LC E PI 02