# Portable Ultrasonic Liquid Level Indicator

With products from SMAGALL, you can get:

- Safe and quick detection of liquid level in your tank
- Reliable performance
- 24-Hour English technical instruction
- Convenient and simple operation and maintenance.

### **General Description**



The portable liquid level indicator is designed to measure the presence or absence of liquid at a certain height position in a container or in pipelines. The material of measurable liquid containers can be made of various kinds of materials like metal, glass or unfoamed plastics.

Under ordinary conditions, the maximum wall thickness of measurable containers is 30mm. The product is applicable to the detection of various types of liquids (without crystallization or other particulate matter). Due to the technique of non-contact detection this liquid level indicator is an ideal choice for the detection of dangerous toxic or corrosive liquids.

### Measurable medium

Pure liquid, milky liquid, suspension liquid

The indicator has no requirement towards medium, height and pressure.

### Applicable Tank

vertical tank / horizontal tank / spherical tank(diameter > 3M)

CO2 Tank

#### Features

- No contact with medium
- Suitable for toxic, corrosive, or invasive medium
- No need for drilling or welding on tank wall
- Reliable measurement results
- Easy and convenient to operate and maintain
- Ultrasonic adaptive detection algorithm
- High-contrast OLED color display, suitable for outdoor use under strong light



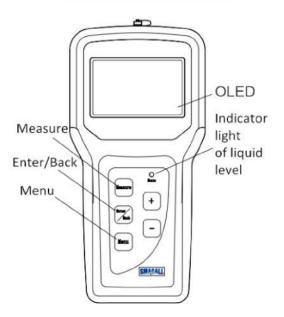
• The ultrasonic-waveform-display function facilitates parameter testing,

wave form comparing and application of other functions to ensure

measurement accuracy in complicated situations

- Good user interface design
- Comprehensive software displays measurement result in a simple manner
- Bilingual operation modes (Chinese/English)

### **Product Structure**

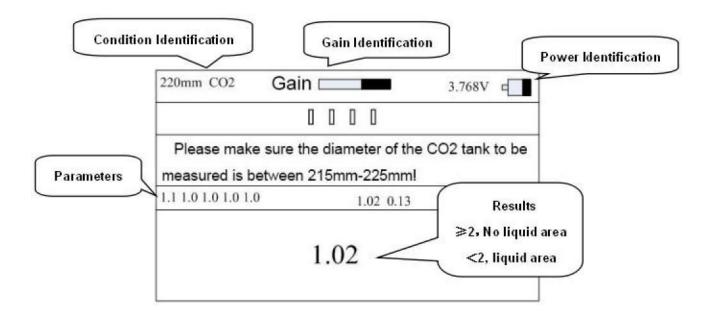


- Simple to operate using button;
- OLED light indicating liquid level;
- Ultrasonic-waveform-display function facilitates parameter testing, waveform comparing and application of other functions to ensure measurement accuracy in complicated situations.
- FM 200 and NOVEC 1230 Suppression Cylinders
- CO<sub>2</sub> tanks with any of the following diameter ranges:

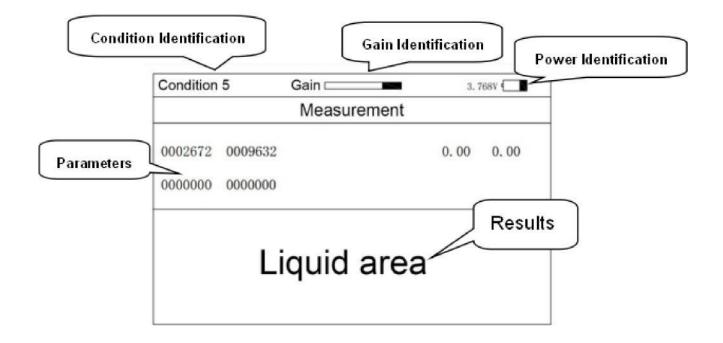
215mm - 225mm, 270mm- 280mm, 345mm - 355mm, 395mm-405mm.

### Interface Display

CO2 Tank: 215mm-225mm, 270mm-280mm, 345mm-355mm, 395mm-405mm



Common Tank: Vertical tank, horizontal tank, spherical tank (diameter > 3m)



### Main Specifications

Measurement Accuracy	<5mm
Measurable Range of Wall Thickness	3~30mm
Measurable Tank Material	steel, stainless steel, glass, unformed plastics
Measurable Medium	pure liquid, milky liquid, suspension liquid
Ambient Temperature	-20°C~60°C (-4°F~+140°F )
Ambient Humidity	15%~85%RH
Power Supply	two 18650 lithium batteries
Current	100mA (on average)

### **Product Details**

#### **Housing Body**

- Nontoxic harmless engineering plastics
- Handheld ergonomic design
- Large screen with clear interface
- Simple operation, saving training cost





#### **LED Display**

- Visual operation interface
- High screen resolution: night time visibility
- Liquid area or no liquid data can be visually displayed

#### Interface

- Aviation plug
- Locking structure, reliable connection

and not easy to loose

With protective cap, keep joint clean

and not easy to be damaged



#### Switch



- Mechanical Switch
- Short start-up time

#### **Power Indicator Light**

Easy to judge battery power according to lightness of the

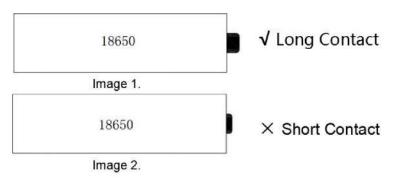
indicator

(More power, brighter)



#### Battery

- > 18650 lithium rechargeable battery
- Convenient replacement
- > Environmental
- Single battery is workable for indicator
- Two batteries can work for more than 10 hours



Please note, the length of standard 18650 lithium battery is  $65\pm2.0$ mm. If you see the above two dimensions of 18650 battery, please select the one with longer protruding. (see Image 1.)

### Model Selection:



One Probe with two sensors, suitable for various types of tanks;

No need of ultrasonic couplant, cost saving, convenient and no pollution;

Three kinds of probe rod optional for different requirement



#### Three models are optional

No.	Product Description	Probe Rod Combination
1	Portable Ultrasonic Liquid Level Indicator with STANDARD PROBE ROD HS-MLI-1	Toom Toom
2	Portable Ultrasonic Liquid Level Indicator with EXTENSION PROBE ROD HS-MLI-2	SOOm
3	Portable Ultrasonic Liquid Level Indicator with 90 DEGREE PROBE ROD HS-MLI-3	Ath-Homen, function

# Application



For CO2 storage tank of the fire fighting system in the offshore drilling platform.



For dangerous chemicals in storage tank



Measurement results visually displayed; Green light indicating liquid area; Red light indicating non-liquid area;

### Qualifications





# Packing

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ltem	Inner Package	Outer Package
Pictures	Certificate of approval Warranty Operation manual Probe Probe	
Description	Professional engineering instrument box with protective layer;Convenient to carry with strap and handle;Free from impact and damage;Packing List:Portable liquid level indicator1 pieceUltrasonic probe1 pieceManual1 pieceCertificate of approval1 pieceWarranty Card1 piece	Size:420*320*130mm

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### Shipping



### **Contact Us**

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