Water Level Sensor

Make: EnthuTech

Brand: ETS

Model: ETS-3WL-S

Salient Features:
- LoRaWAN 1.0.3 Class A
- Frequency Band: IN865
- Ultra-low power consumption
- Distance Detection by Ultrasonic technology
- Non Contact & Top Mounting on tank
- Flat object range upto 7500mm
- Accuracy: ±0.25%
- Measure Angle: 40°
- Cable Length (Default): 5 Meter (Customisable)
- Support Bluetooth v5.1
- Support LoRaWAN remote configure
- Support wireless OTA update firmware
- AT Commands to change parameters
- Downlink to change configure
- IP67 Waterproof Enclosure

Power Supply Provisions (Optional to Select):
- 8500mAh Li/SOCl2 Non-Rechargeable Battery
- Solar panel + 3000mAh Li-Ion battery
- 230VAC Power + 2600mAh Li-Ion Battery

Operating Temperature Ratings:
- Operating Temperature: -40 ~ 85°C

Accessories:
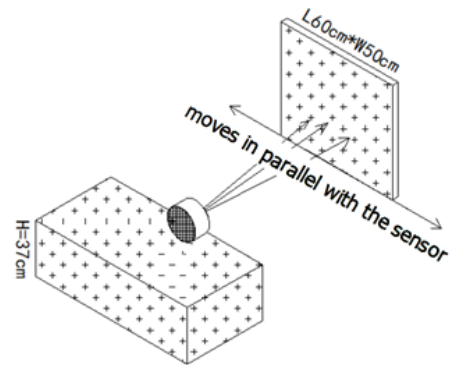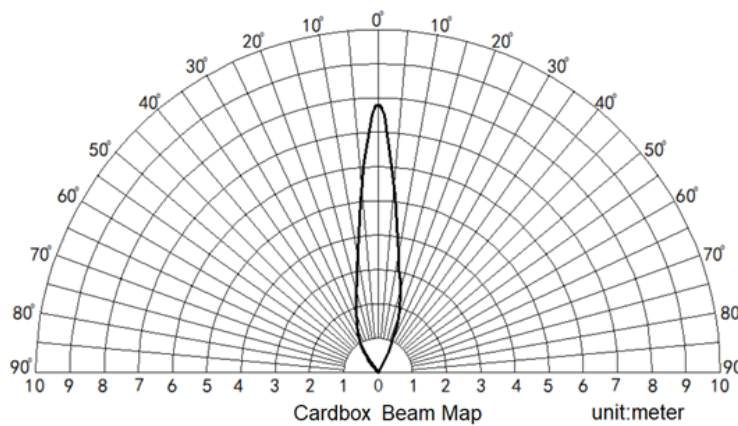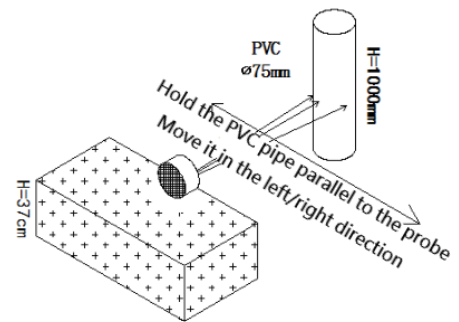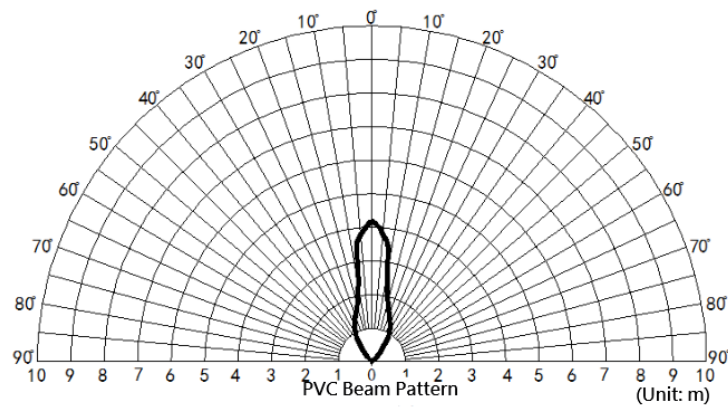- Can be provided on request based on the tank type

Applications:
- Liquid level measurement (Concrete/ Syntex/ Metal Tanks)
- Industries/ Apartments/ Villas water tanks (Over Head Tank & Under Ground Tanks)
- STP & WTP Plants
- Horizontal distance measurement
- Parking management system
- Object proximity and presence detection
- Intelligent trash can management system
- Robot obstacle avoidance

Product Certification and Compliances:
- WPC, CE, IEC 61131-3:2013, IEC 61131-5:2013, ISO/IEC 14882:1998

Product Overview:

The ETS-3WL-S is a LoRaWAN Distance Detection Sensor used to measure the Water Level in the tanks. This measurement uses ultrasonic sensing technology for water level measurement, and temperature compensation is performed internally to improve the reliability of data. It uses LoRaWAN wireless technology to send the data to IoT Server. It provides ultra-long range spread spectrum communication and high interference immunity whilst minimizing current consumption.

ETS-3WL-S supports BLE configure and wireless OTA update which make user easy to use. It is powered by Solar panel + 3000mAh Li-Ion battery or 230VAC + 2600 mAh Li-Ion Battery or 8500mAh Li/SOCl2 Battery. The Image Shown above may vary based on Power Source selection.

This has option to connect upto 3 Ultrasonic type Sensors in one Transmitting device. User can select based on site conditions.

Beam Pattern:

PVC Beam Pattern (Unit: m)

Hold the PVC pipe parallel to the probe
Move it in the left/right direction

PVC ø75mm
H=1000mm
H=37cm

Cardbox Beam Map   unit:meter

L60cm*W50cm
moves in parallel with the sensor
H=37cm

Installation Dimensions:

7.5±0.5mm
24.5±0.5mm
34.00±0.2mm
12.60±0.3mm
Ø21.3±0.2mm
66.00±0.5mm
30.60±0.2mm
31±0.2mm

HY2.0*4 Pin
HY2.0*4 Pin
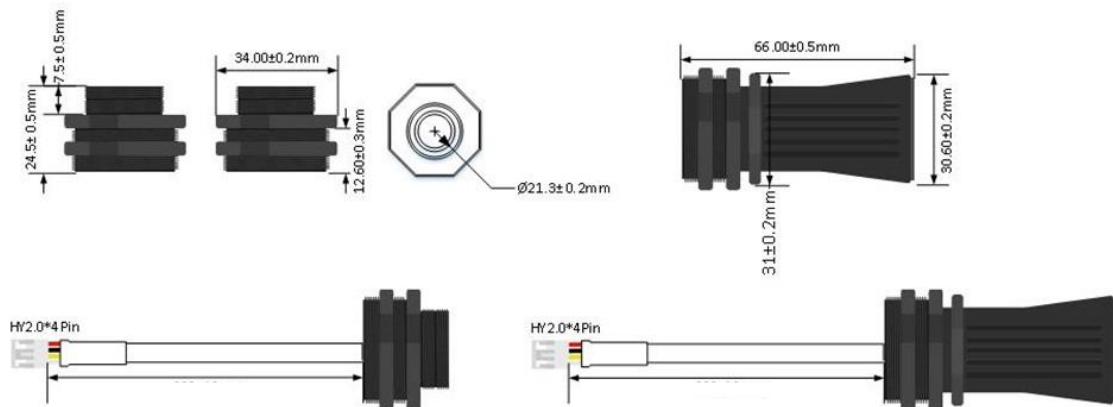
Contact Us

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