## SUL650 WIRELESS ULTRASONIC LEVLE SENSOR

### OVERVIEW

SUL650 series intelligent wireless digital wireless liquid level/level sensor is a high-precision, high-stability intelligent digital display product launched by our company. It is suitable for real-time measurement and display of liquid level/material level. The product adopts a dedicated wide temperature LCD display, high stability sensor, and is carefully manufactured through precision digital temperature compensation and nonlinear correction technology to ensure the high precision and high stability of liquid level/level measurement. The built-in wireless module uses the network to provide users with wireless long-distance and low-power data transmission, and sends all sensor status data to the cloud background management server in real time to achieve alarm linkage and data statistical analysis with the smart cloud platform.

### FEATURES

◆Power supply: two DC3.6V disposable lithium batteries

◆Wireless transmit power: <23 dBm

◆Receiving sensitivity: <-135 dBm

◆Theoretical bandwidth: 200Kbs

◆Support wireless transmission of alarm status to server, server address and port can be configured

◆Adopt precision digital temperature compensation and nonlinear correction technology, wide temperature range and full range precision compensation;

◆Multiple data type indication (percentage, output current display);

◆Special wide temperature LCD display (-30°C~80°C);

◆Provide multiple power supply methods at the same time;

◆Vertical installation or axial installation, provide a variety of liquid level / level interface and interface materials;

◆With parameterized LCD and three setting buttons.

◆According to user needs and site conditions, the collection frequency and collection time interval can be set.

◆Battery power monitoring, when the power is low, the meter screen flashes and prompts to report to the centralized management platform at the same time.

◆Water pressure/water level alarm threshold can be set and modified according to actual needs.

◆Automatic alarm for water pressure/water level alarm threshold.

### SPECIFICATION

| ITEMS | INPUT |
|---|---|
| Measured variable | Liquid level, material level |
| Blind zone | Default 30cm (Min.15cm ) |
| Maximum measuring range | Default: 20-4000mm (Max.15m) |
| ITEMS | OUPUT |
| Comprehensive accuracy | ±0.15%FS/ 0.15°C |
| Temperature compensation | -10°C~70°C |
| Vibration influence | <± 0.05%/g, 500Hz in all directions (in accordance with IEC 68 -2-64) |
| Signal output | Lora WAN/Lora private/4G cat1/NB-IOT |
| ITEMS | Rated conditions/Environmental conditions |
| Ambient temperature | -25~+85°C |
| Protection level | IP65 compliant with EN 60529 |
| Electromagnetic Compatibility | EN 61326/A2 Annex A (2001) |
| ITEMS | Display and control |
| Display | SFTN LCD, white backlight, 5 digits display. |
| Limit value | Free setting |

| ITEMS | Display and control |
|---|---|
| Parameter settings | Use 3 buttons |
| Unit | mm, the default unit is m. |
| Weight | About 1.35kg |
| ITEMS | Non-wetted parts materials |
| Connector | 1NPT, stainless steel, length 20mm (materials and joint specifications can be customized according to customer requirements). |
| Electrical connections | Make the waterproof connector, air hole cable entrance comply with EN 175301 -803A standard |
| Measurement period | ≤ 100ms |

## ORDER GUIDE

| SUL | Wireless ultrasonic level meter | | | | | |
|---|---|---|---|---|---|---|
| | **CODE** | Model code | | | | |
| | **650** | Wireless ultrasonic level meter | | | | |
| | | **CODE** | Range | | | |
| | | **5** | 5m | | | |
| | | **10** | 10m | | | |
| | | **15** | 15m | | | |
| | | **C** | More range customized | | | |
| | | | **CODE** | Power supply | | |
| | | | **C** | DC3.6V lithium battery | | |
| | | | **M** | More customized | | |
| | | | | **CODE** | Shell material | |
| | | | | **A** | ABS | |
| | | | | **B** | PP | |
| | | | | **C** | PTFE | |
| | | | | **D** | 304 | |
| | | | | **E** | PVDF | |
| | | | | **F** | Cast aluminum | |
| | | | | | **CODE** | Signal output |
| | | | | | **L1** | Lora Wan 1.2 standard protocol version |
| | | | | | **L2** | Lora wireless custom protocol version |
| | | | | | **G** | 4G Cat1 version |
| | | | | | **N** | NB-IOT version |
| SUL | 650 | 10 | C | A | L1 | Order code |