ULTRASONIC LEVEL MEASUREMENT / DATA SHEET

SS402-04
Split Ultrasonic Level Meter

Separate indicator and probe for non-contact material and liquid-level measurement.

Overview

- SS402-04 is a split ultrasonic level meter for non-contact measurement of material and liquid levels.
- Ultrasonic sensing avoids contact with the medium while supporting reliable, cost-effective measurement.
- The separate indicator and probe arrangement supports flexible installation where the probe is located away from the display unit.
- Probe cable length is up to 100 m, with 10 m as the standard cable length.
- Selectable ranges from 5 m to 50 m are available, with 4-20 mA, RS485 and RS232 options.



Range	Accuracy	Output	Resolution
5-50 m	0.5-1.0%	4-20 mA	3 mm / 0.1%
Supply	**Temperature**	**Protection**	**Cable**
220 VAC	-20 to +60 °C	IP65 / IP68	10 m std.

Key Advantages

- Non-contact ultrasonic measurement avoids contact with the medium.
- Reliable and cost-effective measurement for common level-measurement requirements.
- Split construction supports flexible indicator and probe placement.

Application Scenarios

- Material level measurement.
- Liquid level measurement.
- Non-contact level monitoring with a remote probe installation.

Measurement Principle

SS402-04 uses ultrasonic sensing for non-contact measurement of material and liquid levels. Ultrasonic measurement avoids contact with the medium and supports reliable, cost-effective operation; the split construction separates the indicator from the probe.

Technical Specifications

Parameter	Specification	Parameter	Specification
Measuring range	5 m, 10 m, 15 m, 20 m, 30 m, 40 m or 50 m	**Accuracy**	0.5%-1.0%
Resolution	3 mm or 0.1%, whichever is greater	**Display**	Chinese LCD display
Analog output	4-20 mA / 510 Ω load	**Relay**	Optional 2 or 4 groups of AC 250 V / 8 A or DC 30 V / 5 A relays; programmable

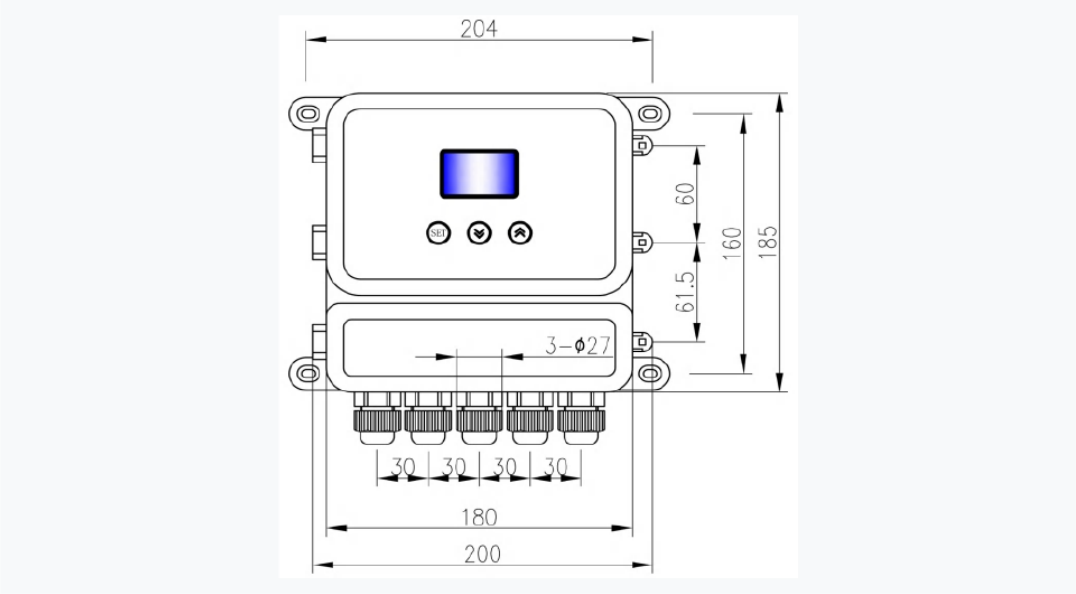
Parameter	Specification	Parameter	Specification
Power supply	Standard 220 VAC +15% 50 Hz; optional 24 VDC 120 mA; customizable 12 VDC or battery power	**Ambient temperature**	Indicator: -20 to +60 °C; probe: -20 to +80 °C
Communications	Optional RS485 or RS232 communication	**Protection rating**	Indicator: IP65; probe: IP68
Probe cable	Up to 100 m; standard 10 m	**Probe mounting**	Depending on range and probe selection
Power consumption	No relays: 2.4 W; two relays: 3.6 W; four relays: 4.8 W		

Output and Communication

Interface	Configuration
Analog output	4-20 mA / 510 Ω load
RS485	Optional communication interface
RS232	Optional communication interface
Relay	Optional 2 or 4 programmable groups: AC 250 V / 8 A or DC 30 V / 5 A
Display	Chinese LCD display

Available configurations include 4-20 mA output, optional RS485 or RS232 communication, and optional programmable relays.

Mechanical Dimensions / Installation



Dimension drawing of the split indicator enclosure. Dimensions are shown in millimetres; the drawing identifies a 204 mm overall width, 185 mm overall height, 200 mm mounting width and five Ø27 cable entries.

Product Selection / Ordering Information

Selection	Configuration
Base model	SS402-04 — Split Ultrasonic Level Meter
Precision code	1: ±0.5%FS; 2: ±1%FS
Output code	1: 4-20 mA; 2: 4-20 mA + RS485; 3: 4-20 mA + RS232
Power-supply code	1: 24 VDC; 2: 12 VDC; 3: 220 VAC
Range code	5 m, 10 m, 15 m, 20 m, 30 m, 40 m or 50 m
Relay option	Optional 2 or 4 programmable relay groups
Probe cable	Standard 10 m; up to 100 m
Protection / temperature	Indicator IP65; probe IP68; indicator -20 to +60 °C; probe -20 to +80 °C

Specify SS402-04 with the required precision, output, power-supply, range, relay and probe-cable configuration. Final configuration remains subject to the listed options.

CONTACT / SUPPORT

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