LEVEL MEASUREMENT / DATA SHEET

SS400-02
Submersible Liquid Level Transmitter

Industrial submersible transmitter for liquid level measurement and control.

Overview

- SS400-02 is designed for industrial process level measurement and control, water conservancy and hydropower monitoring, and automation systems.
- The source specifies moisture-proof, anti-condensation and anti-leakage construction with IP68 protection for the cable-output type.
- Features include impact, overload, vibration and corrosion resistance, plus lightning, RF and electromagnetic interference protection.
- Temperature digital compensation, high precision, high-frequency response and long-term stability are listed in the source.



Level range 0-1...50 m	Output 4-20 mA / 0-5 V	Accuracy ±0.5% FS / ±1% FS	Protection IP68
Temperature -10 to +70 °C	Material 304 SS media	Response High frequency	Supply 9-30 VDC

Key Advantages

- Moisture-proof, anti-condensation and anti-leakage design.
- Impact, overload, vibration and corrosion resistance.
- High-efficiency lightning and electromagnetic interference protection.
- Advanced temperature digital compensation function.
- High precision, high-frequency response and long-term stability.

Application Scenarios

- Industrial process level measurement and control.
- Water conservancy and hydropower monitoring and control.
- Building automation and constant-pressure water supply.
- Urban water supply and sewage treatment.
- Automation system level measurement and control.

Measurement Principle

The supplied source identifies SS400-02 as a submersible level transmitter for process measurement and control. It provides selectable analog or RS485 outputs and supports level ranges from 0 to 1...50 m according to configuration.

Technical Specifications

Parameter	Specification	Parameter	Specification
Level range	0-1...50 m	**Signal line specification**	2-wire / 3-wire / 3-wire / 4-wire
Output signal	4-20 mA / 0-5 V / 0-10 V / RS485	**Supply voltage**	4-20 mA: 9-30 VDC; 0-5 V: 9-30 VDC; 0-10 V: 15-30 VDC; RS485: 9-30 VDC

Parameter	Specification	Parameter	Specification
Accuracy level	±0.5% FS / ±1% FS	**Medium temperature**	-10 to +70 °C (no freezing)
Medium compatibility	Compatible with 304 stainless steel media	**Protection level**	IP68 (cable output type)

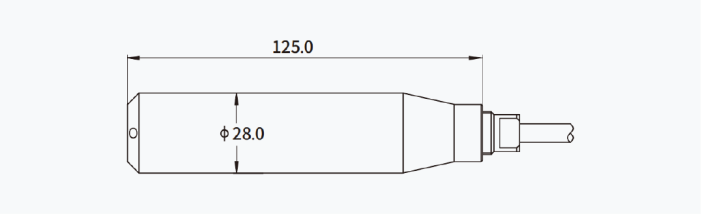
The specifications above are transcribed and normalized from the supplied source datasheet. Confirm accuracy, output, electrical connection, threaded connection and measuring range before ordering.

Output and Communication

Interface	Source-listed configuration
4-20 mA	2-wire output; 9-30 VDC supply
0-5 V	3-wire output; 9-30 VDC supply
0-10 V	3-wire output; 15-30 VDC supply
RS485	4-wire output; 9-30 VDC supply

The source lists 4-20 mA, 0-5 V, 0-10 V and RS485 output configurations with their corresponding supply voltage and wire-count options. Confirm the selected configuration before ordering.

Mechanical Dimensions



Source drawing dimensions: length 125.0 mm; body diameter Ø28.0 mm.

Electrical Connection

Output	Wire color	Definition
4-20 mA	Red	Positive power supply (+Vcc)
4-20 mA	Black	Output (Iout)
0-5 VDC / 0-10 VDC	Red	Positive power supply (+Vcc)
0-5 VDC / 0-10 VDC	Black	Power negative (GND)
0-5 VDC / 0-10 VDC	Green	Output (Vout)
RS485	Red	Positive power supply (+Vcc)
RS485	Black	GND
RS485	Green	RS485A
RS485	White	RS485B

The specific wiring method is subject to the line standard.

Product Selection

Selection	Configuration
Base model	SS400-02 - Submersible Liquid Level Transmitter
Product model code	1000
Accuracy	2: ±0.5% FS
Output / power	1: 4-20 mA / 24 VDC; 2: 0-5 VDC / 24 VDC; 3: 0-10 VDC / 24 VDC; 8: RS485 / 9-30 VDC
Electrical connection	2: Direct lead
Threaded connection	B: Submersible installation (no thread)
Measuring range	Selected level range, 0-1...50 m

Specify SS400-02 with the selected configuration codes.

CONTACT / SUPPORT

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