LEVEL MEASUREMENT / DATA SHEET

SS400-05
Low Power Submersible Liquid Level Sensor

Low-power submersible sensor for liquid level measurement and control.

Overview

- SS400-05 is designed for submersible liquid level measurement and control in industrial processes and automation systems.
- The source lists water conservancy and hydropower monitoring, building automation, constant-pressure water supply, urban water supply and sewage treatment applications.
- Four voltage-type output ranges are listed: 0.25-1.25 VCC, 0.25-2.25 VCC, 0.5-2.5 VCC and 10%-90% VCC.
- Low power consumption, IP68 cable-output protection, high precision and long-term stability are specified in the source.



Level range **0-1...50 m**	**Output** **Voltage type**	**Supply** **3-5 VDC**	**Power** **≤2.7 mA**
Accuracy **±0.5% FS / ±1% FS**	**Probe** **Ø28 mm**	**Temperature** **-10 to +85 °C**	**Protection** **IP68**

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.
- Other automation system level measurement and control.

Technical Specifications

Parameter	Specification	Parameter	Specification
Measuring range	0-1...50 m	**Output signal**	0.25-1.25 VCC / 0.25-2.25 VCC / 0.5-2.5 VCC / 10%-90% VCC
Measurement medium	Water, gasoline, diesel	**Supply voltage**	3-5 VDC
Power consumption	≤2.7 mA	**Accuracy level**	±0.5% FS / ±1% FS
Probe diameter	Ø28 mm	**Operating temperature**	-10 to +85 °C (no freezing)

Operating Conditions

Parameter	Specification
Protection level	IP68 (cable output type)
Medium compatibility	Various media compatible with 304 stainless steel

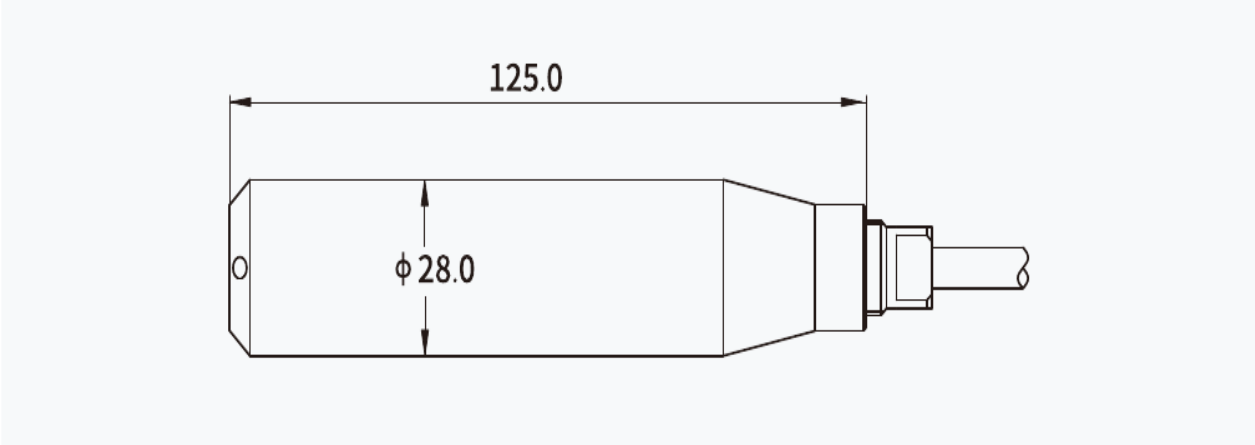
Reference temperature: 25 °C unless otherwise stated. The specifications above are transcribed and normalized from the supplied source datasheet.

Output and Communication

Interface	Source-listed configuration
0.25-1.25 VCC	Code C; 3-5 VDC supply
0.25-2.25 VCC	Code D; 3-5 VDC supply
0.5-2.5 VCC	Code E; 3-5 VDC supply
10%-90% VCC	Code F; 3-5 VDC supply

The source lists four voltage-type output selections, all using a 3-5 VDC supply.

Mechanical Dimensions



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

Electrical Connection

Output method	Wire color	Definition
Voltage type	Red	+Vcc
Voltage type	Black	GND
Voltage type	Blue	+Vout

Product Selection

Selection	Configuration
Base model	SS400-05 - Low Power Submersible Liquid Level Sensor
Accuracy	2: ±0.5% FS; 3: ±1% FS
Output / power	C: 0.25-1.25 VCC / 3-5 VDC; D: 0.25-2.25 VCC / 3-5 VDC; E: 0.5-2.5 VCC / 3-5 VDC; F: 10%-90% VCC / 3-5 VDC

Selection	Configuration
Electrical connection	2: Direct lead
Threaded connection	B: Submersible installation (no thread)
Measuring range	Selected measuring range; source example uses range code 700

Specify SS400-05 with the selected configuration codes.

Ordering Code Structure

Code field	Source-supported value
Series model	SS400-05
Precision code	2: ±0.5% FS; 3: ±1% FS
Output / power code	C / D / E / F: source-listed voltage outputs / 3-5 VDC
Electrical connection code	2: Direct lead
Thread connection code	B: Submersible installation (no thread)
Measuring range code	Selected range code; source example uses 700

CONTACT / SUPPORT

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