



Explosion-Proof Float Level Switch User Manual

After moving to any menu using the ∇ key, press the SET key to enter the secondary menu. The specific functions of the secondary menu are shown in the figure above.

Use the $\triangle$ button to adjust values and the SET key to save data. On the level calibration page, after modifying the calibration range value, follow the on screen prompts and press the buttons simultaneously to perform calibration. After calibration is completed, it will automatically return to the previous menu. Normally, it is sufficient to calibrate the zero point and the full point.

Usage Instructions and Warranty

- a) The instrument should be stored and used in ambient temperatures of -30°C to 80°C with humidity less than 80%.
- b) When connecting power to the instrument, refer to the wiring instructions in Section 3; power on the instrument only after confirming that all connections are correct.
- c) Provided that the user complies with the operating specifications, we offer a one year warranty from the date of manufacture and lifetime technical support. We welcome customer inquiries and value your valuable suggestions.



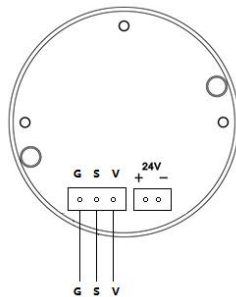
Overview

This product is a high-precision, high-stability liquid level transmitter board. It uses a 12864 dot-matrix LCD display, providing rich display content and functions. It is suitable for resistance signal transmission from magnetoresistive sensors. The product uses a 24-bit Z-Δ analog sampling chip to ensure high measurement accuracy; comprehensive surge protection and reverse-polarity protection avoid incorrect installation and operation in field applications; enhanced software safety design includes an independent watchdog, low-voltage monitoring reset, and multitasking scheduling optimization.

Technical Parameters

Power	12~36VDC	Output	4~20mA
Accuracy	0.2%	Output Limit	20.8mA
Excitation	210uA	Sensor Type	MR sensor
Load	≤600Ω	Temp. Range	-40~120°C
TC	≤25ppm/°C F.S	Material	ABS
Op. Temp.	-30~80°C	Mounting	4mm plug

Wiring Method



Magnetoresistive Sensor Wiring

The two-wire 4-20 mA output, i.e. the 24 V power supply, is connected to the 24V+ and 24V- terminals.

In the bottom view of the circuit board, the two diagonal positioning studs are used to secure the circuit board to the transmitter aluminium housing. The magnetoresistive sensor is connected to the top two terminals as shown in the figure. The G, S, and V terminals of the magnetoresistive sensor are connected to the corresponding terminals on the transmitter board as illustrated.

Field Calibration of the Transmitter

Above the buttons is the SET key; below, from left to right, are the ▽ key and the △ key.

Key \ Function	Menu Selection	Data Modification
SET	Select/Enter	Confirm and Exit
△	Back/up	Cycle Left
▽	Cycle Down	Digit Inc / Pt Shift

Function diagram (Note: Long press the SET key to enter the menu)

