

DDM-1006 Conductivity Sensor User Manual



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User Notes

- Please read this manual carefully before use and save it for reference.
- Please follow the operating procedures and precautions in this manual.
- When receiving the instrument, please carefully open the package and check whether the instrument and accessories are damaged due to shipping. If any damage is found, please inform the manufacturer and distributor immediately, and keep the package for return.
- When the instrument fails, do not repair it yourself. Please contact the maintenance department of the manufacturer directly.

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I、 Application environment

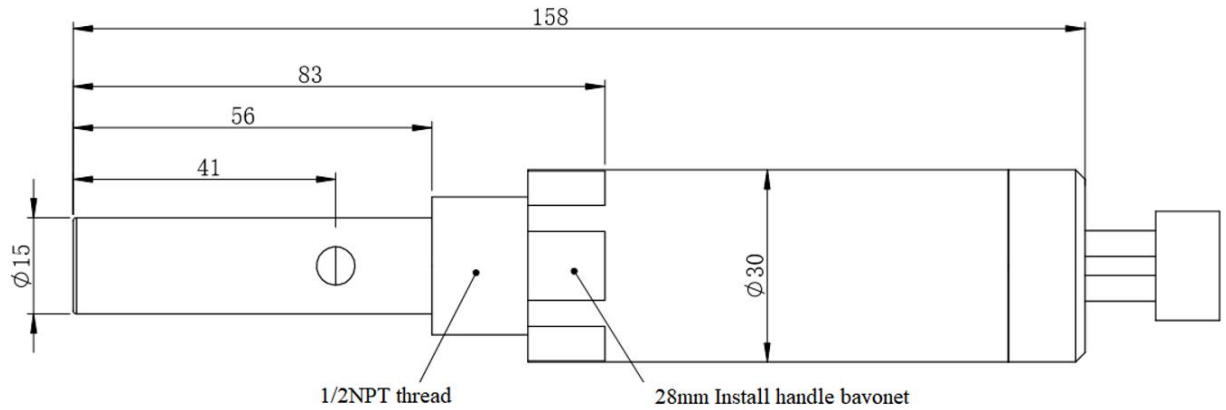
- Used for the measurement of on-board conductivity.
- Signal output:0.8~4V。
- Convenient to connect to the third-party equipment such as PLC,DCS, industrial control computer, general controller, paperless recording instrument or touchscreen.
- 1/2” NPT thread, convenient to install on the tubes or tanks.
- IP67protection grade.

II、 Technical performance and specifications

- **Technical parameters**

Model	DDM-1006
Measuring range	0.01~20.00μS/cm
Resolution	0.01
Accuracy	±1.5%F.S.
Working temperature	-40~90°C
Working pressure	<0.6MPa
Power supply	18~32VDC
Signal output	0.8~4V
Wetted material	SUS316L/PTFE/POM
Installation	1/2” NPT thread
Temperature compensation	Auto temperature compensation (Pt1000)
Calibration	Two-point calibration
Power	0.1W~0.5W
Protection grade	IP67

● Dimension



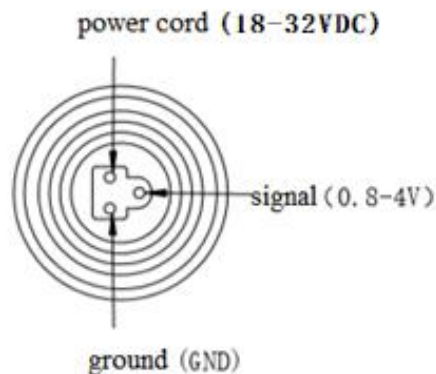
III、 Installation and electrical connection

● Installation

When installing the transmitter, avoid excessive force and sharp collision to damage the electrode. Installation torque less than 10N·m. After wiring, check carefully to avoid wrong connection before power on.

● Electrical connection

- Red line - power cord (18~32V)
- Black line - ground (GND)
- Blue line - signal wire



IV、Maintenance

● Use and maintenance

The electrode need to be cleaned and calibrated regularly,

The electrode needs to be cleaned and calibrated periodically, and the maintenance period is determined by users according to their own working conditions. 。 Cleaning method: remove the attachment with a soft brush (pay attention to avoid scratching the electrode surface), then clean with distilled water, and then conduct calibration operation.

● Calibration

Notice:The transmitter has been calibrated before leaving the factory. If it is not beyond the measurement error, it should not be calibrated at will.

✓ Zero calibration

Rinse the electrode with distilled water and blot the liquid dry with filter paper. At this time, the theoretical conductivity of the electrode exposed to the air should be zero, and the output voltage should be 0.8V. Otherwise, adjust the zero-point potentiometer Z and calibrate the error. If it can not be calibrated, that means the electrode is heavily contaminated and the electrode should be carefully cleaned.

✓ Slope calibration

During the slope calibration, dip the electrode into the full-scale calibration solution and adjust the slope potentiometer S , make the output voltage is 4V.

Note: When potentiometer is adjusted, clockwise adjustment is increased, counterclockwise adjustment is reduced, if the general test value difference range is not large, the small rotation adjustment is ok.

V、Quality and service

● Quality assurance

- ✓ The quality inspection department has standardized inspection procedures, advanced and perfect testing equipment and means, and strictly in accordance with the regulations, to do 72-hour aging test and stability test on the product, and not to allow one unqualified product to leave the factory.
- ✓ The receiving party directly returns the product batch with a failure rate of 2%, and all the costs incurred are borne by the supplier. The reference standard refers to the product description provided by the supplier.
- ✓ Guarantee the quantity of goods and the speed of shipment.

- **Accessories and spare parts**

This product includes:

- ✓ 1 sensor
- ✓ 1 copy of the instruction manual
- ✓ 1 certificate

- **After-sales service commitment**

The company provides local after-sales service within one year from the date of sale, but does not include damage caused by improper use. If repair or adjustment is required, please return it, but the shipping cost must be conceited. Damaged on the way, the company will repair the damage of the instrument for free.