MCTL-S
Temperature Conductivity Level Meter



OVERWIEV

Features

- RS485 interface can be combined with analog interface
- Analog interface rangeable by RS485 interface (turn-down)
- Modbus RTU protocol for process values and configuration
- Excellent long-term stability
- For many years of maintenance-free operation

Technology

- Piezoresistive pressure sensor chip, encapsulated insulated
- High-quality pressure transducer and tried-and-tested mathematical compensation
- Robust stainless-steel housing

Typical applications

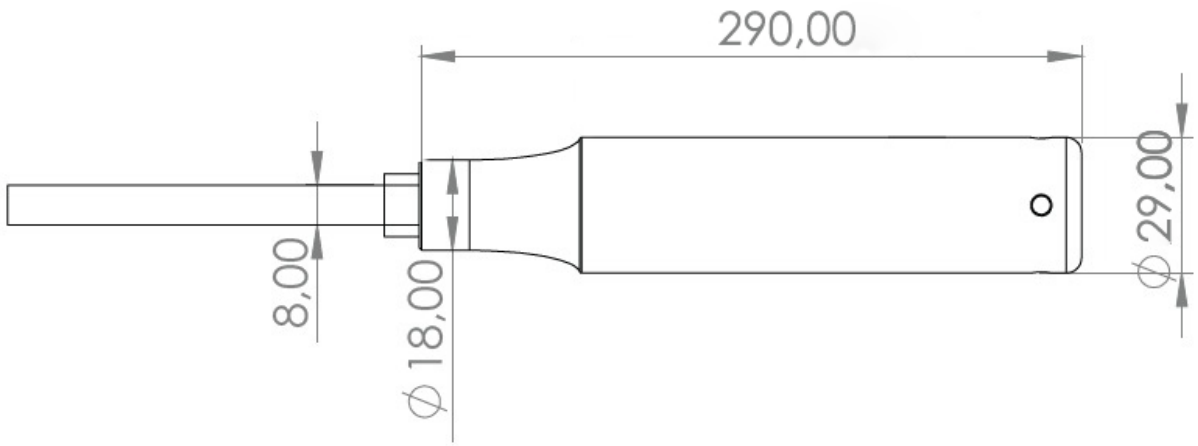
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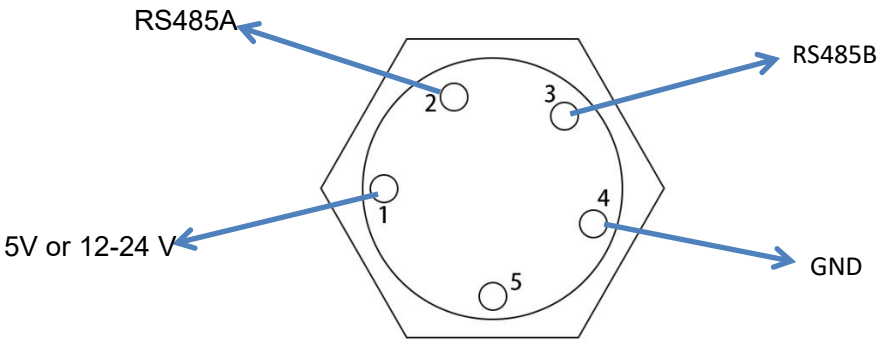
OPERATING DATA

Model		MCTL
Measurement Range	Conductivity	0～400 ms/cm (Customizable)
	Depth	0～1000 m
	Temperature	0～60 ℃
Accuracy	Conductivity	1% or ±10 us/cm
	Depth	0.05% or ±5 mm
	Temperature	±0.1 ℃
Resolution	Conductivity	1 us/cm
	Depth	1 mm
	Temperature	0.1 ℃
Pressure Measuring Principle		Gauge pressure/ Absolute pressure
Wire		4 wires will be 5V/12V～24VDC，GND，RS485A，RS485B
Temperature Compensation		Automatic(ATC)
Power Supply		5VDC or 12～24VDC ±10%
Signal Output		RS-485(Modbus/RTU)
Shell Material		Stainless steel + POM (Customizable)
Install		Immersion installation
Cable Length		Default 10 meters, other length can be customized
Size		29mm x 290mm
Power Consumption		＜3W
Protection Grade		IP68

DIMENSIONS



CONNECTIONS



Cable Wiring

The cable is a customized twisted-pair shielded wire with an air tube. The wire sequence is defined as:

Cable	Red Line	Black Line	Blue Line	White Line
Signal	5V/12-24V	GND	RS485A	RS485B

Note: Carefully check the wiring sequence before power on to avoid unnecessary loss due to wrong wiring.

BASIC SAFETY GUIDE

Personnel requirements

- Only trained professional and technical personnel are allowed to install, debug, operate and maintain the measurement system.
- Technicians performing specific operations must be authorized by the factory.
- Only electricians are allowed to make electrical connections to the equipment.
- Technicians must read the "Operation Manual", understand and comply with its regulations.
- Only authorized personnel with professional training are allowed to troubleshoot measuring points.

NOTE: Repair operations not described in the Operating Manual are only allowed to be performed directly by the manufacturer or its service organization.

Workplace Safety

Users are responsible for and must comply with the requirements of the following safety standards:

- Installation guide
- Local standards and regulations
- Explosion protection regulations

Product Safety

The product is designed to meet the strictest safety requirements and has passed factory testing to work safely. Relevant regulations and international standard requirements must be followed.

- Power can only be supplied after all wiring is completed and checked to avoid danger.
- Special cables must be used for electrode signal transmission lines. It is recommended to use the cables provided by our company. Do not use ordinary wires instead.
- If you find that the sensor is working abnormally or is damaged during use, please contact the dealer and do not repair it yourself.
- Please power on the sensor to warm up for about 10 minutes before performing calibration work.

It is used in drinking water, surface water, various water supplies, marine research, marine environment monitoring, hydrological research and other fields, and can simultaneously measure the temperature, depth and salinity of water bodies.

- Signal output: RS-485 (Modbus-RTU protocol).
- It is convenient to connect to third-party equipment such as PLC, DCS, industrial control computer, general controller, paperless recording instrument or touch screen.
- Dual high impedance differential amplifier, strong anti-interference and fast response.
- Immersion installation.
- IP68 protection grade.