

## CTD Chain Measuring System

**REALTIME**  
**TITANIUM**  
**ROBUST**  
**COST-EFFECTIVE**



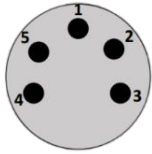
### DW CTD chain

CTD stands for conductivity, temperature, and depth, and refers to a package of electronic devices used to detect how the conductivity and temperature of water changes relative to depth. Daowan CTD chain consists of bus-type sensor node, tensile cable, converter module and other parts, which can quickly measure the temperature and salinity seawater profiling data in real time. The bus realizes the functions of data and power supply to each sensor node. All sensors locations can be customized on demand, the chain can integrate up to 128 measurement points and work reliably to a depth of over 500 meters.

## Bus Communication

RS485 bus for communication (modbus protocol and Daowan private protocol) with addressing function. 128 probes can be connected in parallel on the bus, and the non-relay communication distance over 1000 meters when using shielded twisted pair cable.

## Pin Assignment



Male

- PIN1: Null
- PIN2: RS485-A
- PIN3: GND
- PIN4: VCC
- PIN5: RS485-B

## Power Supply

Power voltage: DC 9-18 (VCC) , Power consumption (12V) : 0.84W (300m cable, 10T sensors and 4D sensors).

## Interface

RS485; 9600 bps, 8 Data bits, None Parity, 1 Stop bits.

## Sensor Options

		
<b>Temperature</b> Range: -5°C-36°C Initial Accuracy: ±0.002°C	<b>Conductivity</b> Range: 0-75mS/cm Initial Accuracy: ±0.005mS/cm	<b>Pressure</b> Range: 0-500dbar Initial Accuracy: ±0.05%FS

**Attention:** When ordering, you need provide: length of the chain, the number and location of sensor nodes, data transmission (Beidou/Iridium/4G).

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