Small online salinity sensor

DST CTD online

Ocean & gear monitoring

Advantages at a glance

- Connects to a subsea device
- Only 8 cm long
- Wide conductivity range
- Shallow to deep ocean

Applications

- Underwater robotics
- Monitoring stations

STAR : ODDI

Logging Life Science

Submersible rugged design
The housing is ruggedly designed, fully waterproof for use on underwater vehicles and monitoring systems. The sensor comes with a 0.6 m long subsea cable. Longer cable is available upon request, max 25 m.

Wide salinity range, low to high conductivity
The CTD online measures over a wide conductivity range from 2 to 68 mS/cm. A low conductivity range, 0.1-6 mS/cm, is also available.

Depth sensors from shallow to deep ocean
Choose between depth calibration ranges 150 m, 500 m, 1200 m or 2400 m.

Hardware and software instructions
For more technical details, an instructions manual for connection to an embedded system is readily available.

Technical specifications

Size (Diameter x Length)	22.4 mm x 80 mm
Subsea Cable Length	0.6 m standard. Extended length available. Max 25 m
Conductivity Ranges	Wide range: 2-68 mS/cm Low range: 0.1-6 mS/cm
Conductivity Resolution	Range 2-68 mS/cm: 0.03 mS/cm Range 0.1-6 mS/cm: 0.003 mS/cm
Conductivity Accuracy	Range 2-68 mS/cm: +/-1.5 mS/cm Range 0.1-6 mS/cm: +/-0.15
Standard Calibration Ranges	150m, 500m, 1200m, 2400 m
Depth Resolution	0.03% of selected range
Depth Accuracy	+/-1% of selected range
Power Requirements	Vcc = 3.3 V DC supply from user's system (Max. power draw is 5 mA)
Embedded System Hardware Connection	1. Direct to a microprocessor, 3.3 V Vcc, where the RC232 port operates at 0-Vcc, and the resting voltage is high (=Vcc). 2. If the embedded system comes with a USART, i.e. a RS232 port with -Vp to +Vp, a transceiver chip is needed for voltage level adjustment and signals inversion. The Vp can range from 5 to 12V
Communication Protocol	RS232