DST CTD online

Online Conductivity (Salinity), Depth and Temperature Logger
Mini CTD salinity sensor for connection to embedded systems

Small conductivity (CTD) sensor connection port for subsea device integration. For both short or long-term oceanographic surveys.

Key features

- Smallest online conductivity sensor on the market
- Real time data or data retrieval after surveying
- Fully submersible rugged design
- Wide salinity range, low to high conductivity
- Pressure sensors from shallow to deep ocean

Required accessories
Subsea cable (up to 25 m long), communication cable, SeaStar Windows software

Various depth/pressure ranges
Choose a calibration range up to:
100 m, 500 m, 1200 m, 2400 m

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TECHNICAL SPECIFICATIONS

Sensors	Conductivity (salinity), temperature, pressure (depth)*
Size (Diameter x Length)	22.4 mm x 89.5 mm
Maximum Diameter	22.4 mm
Housing Material	Ceramic and ABS plastic molding
Weight	30 g in air
Data Resolution	12 bits
Conductivity Ranges	Standard ranges: Wide range: 3-68 mS/cm Low range: 0.3-5 mS/cm Available on request: 13 to 63 mS/cm 3-37 mS/cm
Conductivity Resolution	Standard ranges: 3-68 mS/cm: 0.025 mS/cm 0.3-5 mS/cm: 0.002 mS/cm On request ranges: 13-63 mS/cm: 0.02 mS/cm 3-37 mS/cm: 0.01 mS/cm
Conductivity Accuracy	Standard ranges: 3-68 mS/cm: +/-1.5 mS/cm 0.3-5 mS/cm: +/-0.3 mS/cm On request ranges: 13-63 mS/cm: +/-2 mS/cm 3-37 mS/cm: +/-1.5 mS/cm
Salinity Range	Depends on conductivity and temp. range (consult with Star-Oddi)
Salinity Resolution	Standard ranges**: 3-68 mS/cm: 0.025 PSU 0.3-5 mS/cm: 0.0005 PSU On request ranges**: 13-63 mS/cm: 0.02 PSU 3-37 mS/cm: 0.01 PSU

Salinity Accuracy	Standard ranges**: 3-68 mS/cm: +/-1 PSU 0.3-5 mS/cm: +/-0.1 PSU On request ranges**: 13-63 mS/cm: +/-1.5 PSU 3-37 mS/cm: +/-1 PSU
Temperature Range	-1°C to +40°C (30°F to 104°F)
Temperature Resolution	0.032°C (0.058°F)
Temperature Accuracy	+/-0.1°C (0.18°F)
Temperature Response Time	Time constant (63%) reached in 20 sec.
Standard Depth Ranges	1m-100m, 5m-500m, 5m-1200m, 10m-2400m
Depth Resolution	0.03% of selected range
Depth Accuracy	+/-0.6% of selected range
Depth Response Time	Immediate
Pressure Tolerance	Depends on pressure sensor selected. Max 2500 m
Data Streaming Interval	1 second
Power Requirements	Vcc = 4-5V DC supply from user‘s system (Max. power draw is 5 mA)
Embedded System Hardware Connection	1. Direct to a microprocessor, 4-5V Vcc, w here 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
Clock	Real time clock. Accuracy +/-1 min/month.
Attachment Hole	0.9 mm (diameter)
Cable Connector	User defined cable connector to embedded system

Subsea Cable Length	Customer defined. Max is 25 m.***
Software	User's own software or Star-Oddi's SeaStar for Windows

* CT online version available, skipping pressure (depth) sensor
** Based on conductivity full scale accuracy at 24°C.
*** Contact us if >25 m length is needed.
Warranty: 12 months.
Specifications may change without notice.