MK3C/WOCE CTD

NOTE: (**This instrument is not longer in production. However, we still support it for repair and calibration).**

The **MK3C/WOCE CTD** combines the proven accuracy and reliability of the MK3B CTD with the latest digital and microprocessor technology. The MK3C/WOCE sensor suite is an improvement over the MK3B CTD by the use of a new, low hysteresis, titanium strain gauge pressure transducer with transducer temperature measured separately. In software, transducer temperature is used to accurately correct for the effects of temperature on the pressure measurement. Integration of this sensor, combined with the separate measurement of fast temperature, makes the MK3C/WOCE CTD second to none. The MK3C/WOCE out- performs all existing CTDs in accuracy, precision, resolution and noise level. Raw data from MK3 systems is typically as good or better than time averaged data which is a standard feature of CTD systems offered by some of our competitors.

The MK3C/WOCE CTD features include:
* Separately digitized fast temperature.
* Titanium pressure transducer (low hysteresis).
* Temperature measurement of pressure transducer.
* 8 channel A/D

2 channels dedicated for D.O. sensor (D.O. sensor not included).
1 channel dedicated for pH sensor (pH sensor not included).
1 channel dedicated for pressure-temperature.
4 channels buffered for external sensors (e.g. fluorometer).
* 25 Hz Data (D.C. channels multiplexed)
* Calibration trimpots replaced with fixed resistors to improve measurement stability.
* Calibration file for sensors is supplied on floppy disk providing compatibility with OCEANSOFT.
* Field installable D.O. and pH sensors (sensors not included in price).
* Most channels available in 16" CTD housing.
* OCEANSOFT I CTD data acquisition software and calibration file included.
* RS-232 or RS-485 input for external sensor.
SPECIFICATIONS: Range Resolution Accuracy Sensor Response

Pressure: 6,500 M 0.0015% F.S. 0.03% F.S. <1 mSec
Optional 3,200 M
Temperature: -3 to +32oC 0.0005oC 0.003oC <30 mSec
Conductivity: 1 to 6.5 S/m 0.0001 S/m 0.0003 S/m <30 mSec

The free flow, internal field design of General Oceanics' conductivity cells eliminates ducted pumping (which is required by some competitive CTDs) and is not affected by external metallic objects such as guard cages and external sensors. Calibration is thus preserved providing superior performance in conductivity measurements. This feature combined with the improved temperature measurement technique and the application of OCEANSOFT eliminates salinity spiking.

Power Requirements: 105 to 125 VAC, 50 to 400 Hz, 30 watts (when used with Model 1401 Deck Unit) 28 VDC @ 4.5 watts (Underwater Unit only).
Mechanical Characteristics - Underwater Unit: Weight in air: 95 lbs. Weight in water: 72 lbs.
Material: 17-4 PH stainless steel Maximum safe working pressure: 7,500 decibars
Shock protection: rugged impact absorbing stainless steel guard frame.
Cable Requirements: Single conductor armored cable, Rochester type 1-H-255

********** Customer references available on request **********

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