

CT Sensor Specifications

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Introduction

The NBOSI CT sensor consists of a “fin” style, internal field, 4-electrode conductivity cell with an integral, pressure-protected thermistor and a high precision, self-referencing electronics board. The CT cell is available in a cabled/connectorized version or with a thru-hull penetrator for direct hull mounting. By default, the serial port outputs data as Temperature, Conductivity and Running Time at a 5 Hz sample rate and a baud rate of 9600-N-8-1. A bulkhead mount pressure sensor is available if required and is easily interfaced to the electronics board.

Measurement Range

Temperature = 0 - 30 °C

Conductivity = 0 – 60 mS/cm

Initial Accuracy

Temperature = +/- 0.005 °C

Conductivity = +/- 0.010 mS/cm

Resolution

Temperature = +/- 0.0001 °C

Conductivity = +/- 0.0001 mS/cm

Response Time

Time constant of temperature measurement = 0.4 seconds

Power Requirements

Input voltage: 12 VDC +/- 10%. (DC isolated from seawater)

Current: 35 mA max. independent of sample rate.

PC Board Dimensions

L = 6.000” x W = 1.850” x H = 0.750”

Weight of Sensor and Cable (excluding PC board)

Weight in air = 225 g