

OCEANTOOLS

Innovative Products & Solutions for use in some of the world's harshest environments

OceanTHDT

Compact Tilt, Heading, Depth and Temperature Sensor Pack



The OceanTools OceanTHDT sensor pack is a compact and cost effective subsea measurement device.

The OceanTHDT contains Heading, Pitch, Roll, Depth and Temperature sensors and is available in depth Ratings from 1000m to 6000m.

The units contain a high precision magnetic compass making it ideal for applications where a gyrocompass is too expensive. Data is output as a simple RS232 or RS485 string. OceanTools have produced several methods of displaying the data, including their standard OceanTHDT Windows program and also their Digital Bullseye software, which allows the OceanTHDT to be used as a replacement for conventional subsea bullseyes.

The OceanTHDT contain advanced features including auto-depth recalibration and auto-calibration of the magnetic compass.

There are many OceanTHDT units in operation globally with ROV operators, navies, drilling companies and oceanographic research institutes.

KEY FEATURES

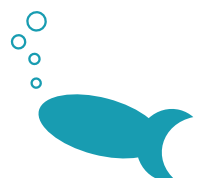
Available in variety of depth ratings from 1000m to 6000m

Aluminium, stainless steel and titanium housings

RS232 & RS485 outputs

Simple to use Windows software

May be used on a wide range of underwater equipment



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SPECIFICATIONS

Heading, Pitch & Roll sensor

Heading accuracy, typical (See Note 1)	1°
Heading resolution	0.1°
Pitch & Roll accuracy, typical	0.1°
Pitch & Roll resolution	0.05°
Temperature accuracy, typical	1°
Temperature resolution	0.1°

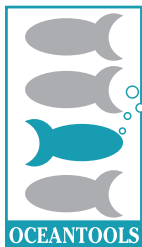
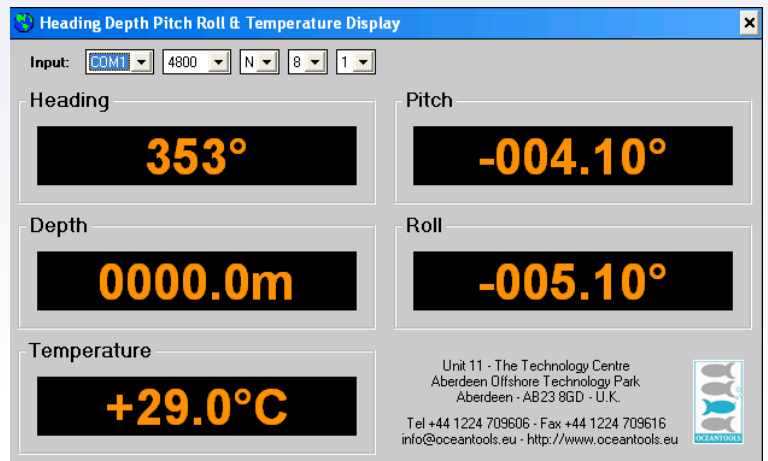
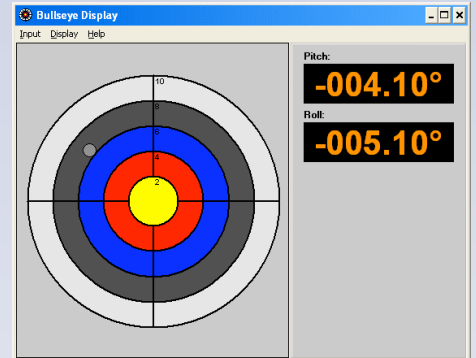
(Note 1: compass is magnetic so accuracy will be affected by ferrous structures, electrical sources etc)

Depth sensor

Depth accuracy	1%
Resolution	0.1m

Dimensions & Environmental (1000m version)

Length	193mm
Diameter	113mm
Weight in air	2.6kg
Weight in water	1.1kg
Depth ratings, standard	1000m, 3000m, 6000m
Depth rating, optional	To customer's requirements
Power requirements	12VDC @ 160mA typical
Data outputs	RS232, RS485



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