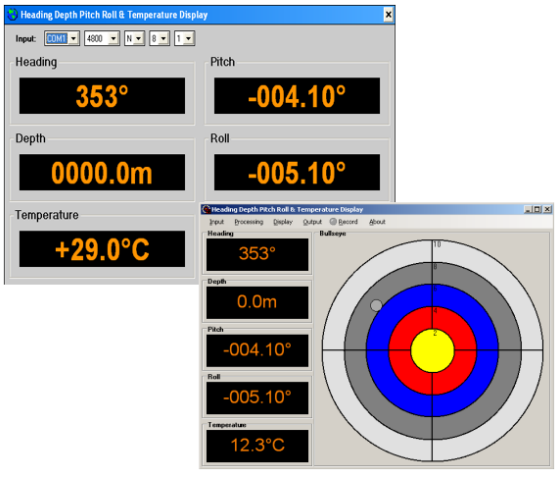
OceanTools
OceanTHDT
Tilt, heading, depth and temperature sensor pack

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

Overview

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

The unit contains 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 developed several methods of displaying the data, including their standard Windows display and 'Digital Bullseye' software, which allows the **OceanTHDT** to act as a replacement for conventional subsea bullseyes.

Data is output as a simple RS232 or RS485 string over copper as standard. A multi-mode fibre data output option is available, for which a matching surface fibre to RS232 converter unit can also be supplied.

The **OceanTHDT** contains 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.

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Key Features

- Available in a variety of depth ratings from 1000m to 6000m
- Aluminium, stainless steel and titanium housings
- RS232 and RS485 outputs
- Simple to use Windows software
- May be used on a wide range of underwater equipment

Specifications		
Heading, Pitch, Roll and Temperature Sensor	Heading accuracy (typical) *	1°
	Heading resolution	1°
	Pitch and roll accuracy (typical)	0.1°
	Pitch and roll resolution	0.01°
	Temperature accuracy (typical)	1°C
	Temperature resolution	0.1°C
Depth Sensor	Depth accuracy	1% Full Scale
	Depth resolution	0.1m
Dimensions and Environmental	Length (excl connector) **	193mm
	Diameter **	113mm
	Weight in air **	2.6kg
	Weight in water **	1.1kg
	Standard depth ratings	1000m, 3000m, 6000m
	Input voltage	12VDC
	Maximum current	120mA @ 12VDC
	Data outputs	RS232, RS485

* *Compass is magnetic so accuracy will be affected by ferrous structures, electrical sources etc.*
** *1000m rated version*

Product datasheets, GA drawings, case studies and other supporting documents are available to download from data.oceantools.co.uk
All specifications are subject to change without notice. E&OE.

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