

# OceanTools

## OceanTILT

### Precision tilt sensor

The **OceanTools OceanTILT** is a very *cost-effective*, compact, precision dual axis subsea inclinometer/attitude reference unit that measures both *pitch* and *roll* to an accuracy of  $0.05^\circ$ .



OceanTILT-4K  
(4000m Aluminium)



OceanTILT-8K  
(8000m Titanium)

## Overview

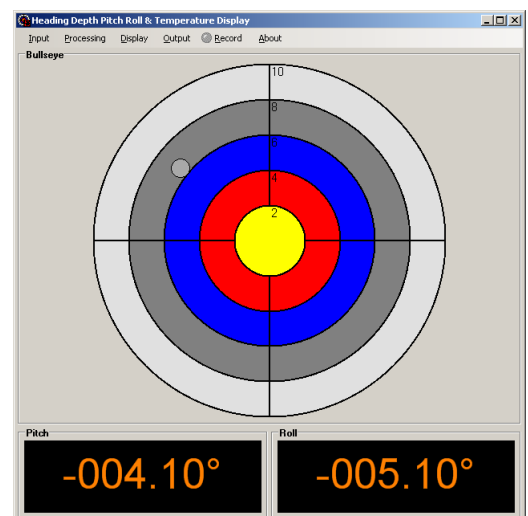
The **OceanTILT** inclinometer is an ideal MiniTilt replacement that can output Pitch and Roll for measuring the attitude of structures such as subsea templates, manifolds and guide bases, or Angle relative to the vertical plane and Quadrant for monitoring the verticality of casings, risers and piles.

The unit is available with either a 4000m rated aluminium housing or 8000m rated titanium housing. RS232 and RS485 outputs are jumper-selectable within the unit.

Simple to use Windows display software allows Pitch and Roll or Angle and Quadrant information to be viewed in several ways, including a digital bullseye mode.

## Key Features

- Standard depth ratings 4000m and 8000m
- $180^\circ$  operating range
- Integral diagnostics
- RS232 & RS485 outputs, simple ASCII data output
- Simple to use Windows software



Digital bullseye indicating pitch and roll



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## Specifications

	OceanTILT-4K	OceanTILT-8K
Pitch and roll range	$\pm 180^\circ$	
Pitch and roll accuracy	$0.05^\circ$ ( $0^\circ \pm 10^\circ$ range)	
Pitch and roll resolution	$0.01^\circ$	
Data outputs	RS232 or RS485	
Baud rates	1200, 2400, 4800 or 9600	
Input voltage	9–36VDC	
Operating current	27mA @ 24VDC	
Length (incl connector)	176mm	
Diameter	112mm	
Weight in air	2.4kg	3.9kg
Weight in water	0.9kg	2.4kg
Depth rating	4000m	8000m
Housing material	Aluminium	Titanium
Underwater connector	Glenair G5507-1508	
Operating temperature	$-30^\circ\text{C}$ to $+55^\circ\text{C}$	

## Related Products

In addition to the stand-alone tilt sensor discussed here, **OceanTILT** technology is central to our integrated attitude and inclinometer packages:

**AMP** Attitude Monitoring Package uses the **OceanDISP-7K** to display pitch and roll measurements from an **OceanTILT** dual axis inclinometer, housed together in a robust deployment frame.

**C-Level** is a compact integrated digital inclination measurement and display unit suitable for ROV or diver deployment.

*All specifications are subject to change without notice. E&OE.*

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