

# 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°.



OceanTILT-4K  
(4000m Aluminium)



OceanTILT-8K  
(8000m Titanium)

### Overview

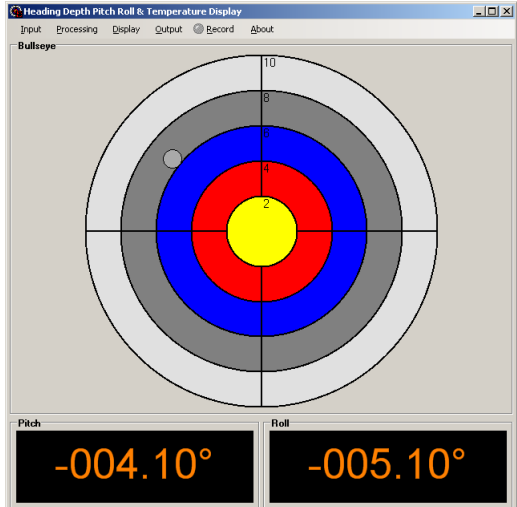
The **OceanTILT** inclinometer is an ideal MiniTilt replacement that can output Pitch and Roll for measuring the attitude of structures such as subsea templates, manifolds and guide bases, or Angle relative to the vertical plane and Quadrant for monitoring the verticality of casings, risers and piles.

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° operating range
- Integral diagnostics
- RS232 & RS485 outputs, simple ASCII data output
- Simple to use Windows software



Digital bullseye indicating pitch and roll



## Specifications

	OceanTILT-4K	OceanTILT-8K
<b>Pitch and roll range</b>	±180°	
<b>Pitch and roll accuracy</b>	0.05° (0°±10° range)	
<b>Pitch and roll resolution</b>	0.01°	
<b>Data outputs</b>	RS232 or RS485	
<b>Baud rates</b>	1200, 2400, 4800 or 9600	
<b>Input voltage</b>	9–36VDC	
<b>Operating current</b>	27mA @ 24VDC	
<b>Length (incl connector)</b>	176mm	
<b>Diameter</b>	112mm	
<b>Weight in air</b>	2.4kg	3.9kg
<b>Weight in water</b>	0.9kg	2.4kg
<b>Depth rating</b>	4000m	8000m
<b>Housing material</b>	Aluminium	Titanium
<b>Underwater connector</b>	Glenair 5507-1508	
<b>Operating temperature</b>	-30°C to +55°C	

## Related Products

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

The **Mooring Chain Inclination System** features **OceanTILT** sensors in custom mounting brackets to measure mooring chain elevation angles.

Product datasheets, GA drawings, case studies and other supporting documents are available to download from [data.oceantools.co.uk](http://data.oceantools.co.uk)

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

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