**C-Moor** is an innovative *catenary measurement system* designed to generate cross-sectional profiles of multiple mooring systems.

**Overview**

*C-Moor* is suitable for systems comprising chain and/or cables from 100m to 1000m in length. Eight angular readings are taken per mooring line and may be used on up to 16 mooring lines per system. A cross-sectional profile of each mooring is built up from sensor array data. Control unit functionality is subject to change and open to client requests.

**Sensor Array**
- Sensor arrays consist of 8 sensors spaced along an interconnecting cable.
- Each sensor measures the local angle of elevation of a mooring.
- Standard sensor array lengths are 100m, 250m, 500m or 1000m.
- Each sensor is clamped to the anchor chain or mooring line.
- Clamps support anchor chain, cable or combination moorings.
- Up to 16 sensor arrays (one for each mooring) are connected to the sensor hub.

**Sensor Hub**
- Sensor hub provides power and communications to all sensor arrays.
- Either externally powered or by battery pack with optional solar charger.
- Sensor hub is linked to control unit via wired communications or RF link.
- Zone 1 rated components are available as an option.
- External power and wired communications allow real-time (e.g. every minute) monitoring.
- Battery power and RF link supports power saving and periodic (e.g. hourly) monitoring.

**Control Unit**
- Control unit hosts graphical display software in control room or bridge.
Control and display software offers:
  • Cross-sectional profile of one mooring
  • Plan view monitoring all moorings
  • Detailed diagnostic information

Status and warnings indicate:
  • Correctly tensioned mooring
  • Under-tensioned mooring
  • Over-tensioned mooring
  • Sensor failure or broken array

Key Features
  • Full length cross-sectional mooring systems profile
  • Real-time or time-lapse measurements
  • Works with chain, cable or combination
  • Works with multiple mooring lines
  • Deployed via ROV or diver

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.