

# SMC VMMS Panel Display

Vessel Motion Monitoring System



The SMC Vessel Motion Monitoring System, VMMS, display, process and log vessel movements during offshore operations. The system provides real-time and statistical data combined in an easy to read solution for the crew to take informed decisions to improve safety and optimize performance.

## General SMC VMMS System

The SMC Vessel Motion Monitoring System, VMMS is a system to connect and display data from a motion reference unit. The graphical display shows rotational and linear measurements for Roll, Pitch, Heave, and Heave Rate together statistical data for, Maximum, Average and Significant Heave Rate values.

Alarm Levels for Safe, Warning and Critical motion levels can be set which is displayed in the traffic light Go / Warning / No Go display for operations such as Crew and Equipment Transfer.

The VMMS is running on the SMC-1310 Display. All data displayed is logged, time-stamped and stored in a SQL database in the internal memory of the device. Stored data can be accessed later for analysis and exports.

## SMC-1310 Vessel Motion Display System

The SMC-1310 Vessel Motion Display System Panel PC is pre-installed with the VMMS and enables a straightforward and simple evaluation of the vessel's movements during diverse operations, such as crew and equipment transfers. The interface can be remotely accessed through a web interface.

## Instrument Integration

The Motion Data in the VMMS is provided by the SMC Motion Reference Units, MRU, SMC-108 and SMC-008, while serial data from vessel GPS and Gyro systems can be connected for Position, Heading and Speed data.

## Key Features

- Clear and Easy Graphical Display
- 10.1" Touch Screen Panel PC
- Operator Settable Alarms
- Data Storage for Analysis
- Improves Safety during Transfers
- Go / No Go Warning light
- 2 Years Warranty

## About SMC

SMC is an ISO9001:2015 quality management certified company, manufacturing motion reference units, weather instruments and system integration software packages, such as Helideck Monitoring and Motion Monitoring systems, for the global marine industry.



# Specification Vessel Motion Display System

## System Specification

Processor: ARM based processor  
Operating System: Linux  
Storage: 8 GB, 4 GB for logging  
RAM: 2 GB  
Display size: 10.1 inch  
Brightness: 800 cd/m<sup>2</sup>  
Aspect Ratio: 16:10  
Resolution: 1280x800  
Viewing angle: 89 degrees  
Touch Type: Capacitive  
Mounting: VESA 75x75mm

## External Output

Serial, Ethernet, SNMP, Modbus TCP/RTU

## Logging

Logging of all interfaced and processed parameters, Usage approx. 10 GB data per year  
Built in Backup features

## Interface Built-in

Serial 4xRS232 or 2xRS422/485  
USB Type A for System Expansion  
Ethernet

## Environmental

Operating Temperature Range 0° to +50° Celsius  
IP rating IP22  
Power requirements 12-36 VDC  
Power Consumption 20W

## Warranty & Support

2-year Limited Hardware & Software Warranty  
Free Technical & Hardware support

