WaveSystem 200

A wave monitoring system for ships and floating installations providing directional wave data, surface current data and draught.

The WaveSystem 200 system is designed for providing wave data with the same accuracy as a well calibrated wave buoy.

The system also provides real time positive or negative draught, depending on whether the hull is partly below or above the water line.

Key Features:

- Real-time sea state monitoring for marine operations
- Real-time draught monitoring for jack-up/down operations
- Wave and current data updated every one minute, draught every one second

Essential For:

- Marine operations
- Crane operations
- Wind turbine installation
- Diving support operations
- ROV launch and recovery
- Wave and surface current data monitoring and recording

Directional wave height data with same accuracy as from a well calibrated wave buoy can now be obtained remotely from floating installations. Additional real-time data provided by the systems are surface current and draught.

WaveSystem 200 gets data input from a Miros RangeFinder, an X-band marine radar, a motion sensor to compensate RangeFinder readings for any ship or vessel motion, and from a gyro compass and GPS. Wind data input is optional.

X-band radar input may come from the vessel's own navigation radar, or a system dedicated radar.

As no parts are submerged into water, WaveSystem 200 maintenance is mainly limited to X-band radar maintenance recommended by the radar manufacturer.

SPECIFICATIONS

Wave Data *:

	Range	Resolution
Height:	0-10 m	0.1 m
Period:	3-30 s	0.1 s
Direction:	1-360°	1°

* Complies with DNV-H101, recommended practice.

Surface current **:

	Range	Resolution
Speed:	0-2 m/s	0.01 m/s (48 RPM)
Direction:	1-360°	1°

** Ref: 1300/TN/041.

Environmental specifications outdoor equipment:

Temperature:	-30-50°C.
Humidity:	10-100 %RH condensing.
IP:	66.

Electrical Data:

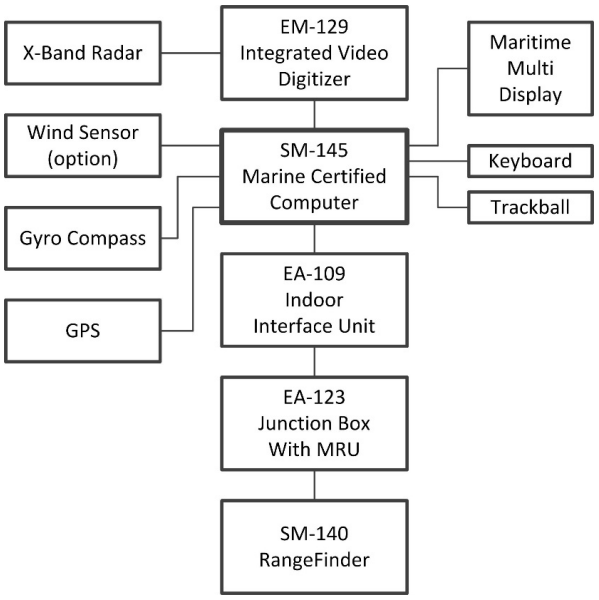
Supply voltage:	100-240 VAC, 50-60 Hz.
Power consumption:	Nom: 250 W, max 300 W.

Input Interfaces:

Gyro:	NMEA-0183 HDT.
GPS:	NMEA-0183, ZDA, GLL/GGA.
Wind (option):	NMEA-0183, MWV.

X-Band Radar Interface:

Ant. Beam Width:	1.3° or less (6 feet or more).
Ant. Rot. Speed:	20 - 60 RPM.
Ant. Mount. Height:	15 - 90 m above sea level.
Pulse Mode:	Short pulse (50 - 80 ns).
Pulse Rep. Freq.:	1000 Hz or higher.
Output Power:	10 kW or more.
Radar Signals:	Raw video, sync, heading marker and azimuth.



Specifications are subject to change without prior notice.

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