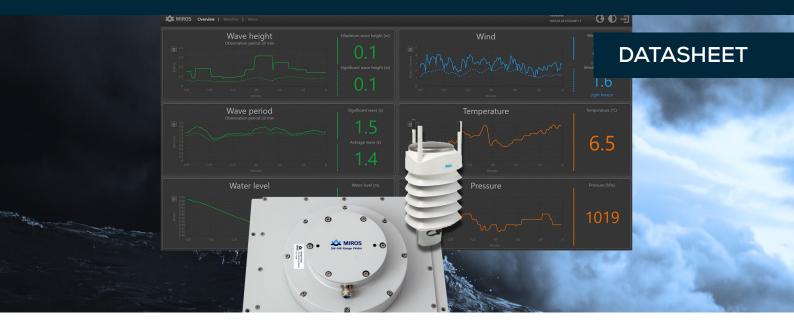


MIROS WAVEWEATHER ACCURATE, REAL-TIME MEASUREMENTS OF LOCAL SEA STATE AND WEATHER CONDITIONS



The compact and easy to install Miros WaveWeather is designed to deliver accurate real-time measurements of local sea state and weather conditions at offshore locations, inside ports, coastal areas or during vessel navigation to improve safety and efficiency for marine operations.

WaveWeather combines measurements from two different sensors, the Miros RangeFinder and Vaisala Weather Transmitter.

Real-time data is integrated into Miros Cloud making it immediately accessible anywhere and without the need of any external processing. Miros Cloud enables easy integration with tidal tables, weather forecasts and other data sources as well as enabling the access to data history enhancing the long-term asset integrity assessments with accurate and reliable data.

KEY FEATURES

- Real-time monitoring of wave height, periods, water level and weather data.
- Easy data access
- Secure data transmission
- Not impacted by rain, fog, or moisture

ESSENTIAL FOR

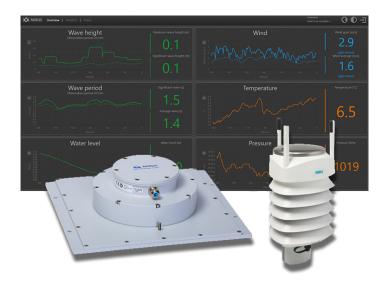
- Increased productivity in weather-critical operations
- Improved safety and efficiency of offshore operations
- Incident analysis and environment specifications
- Port navigation

- Easy access to historical data
- Remote diagnostics, configuration, and software upgrades
- No parts submerged in water
- Low maintenance cost
- Enhancing long-term asset integrity assessments
- Offshore wind turbine installation and overhaul
- Planning and operation support
- Tide gauge according to WMO TD 1339

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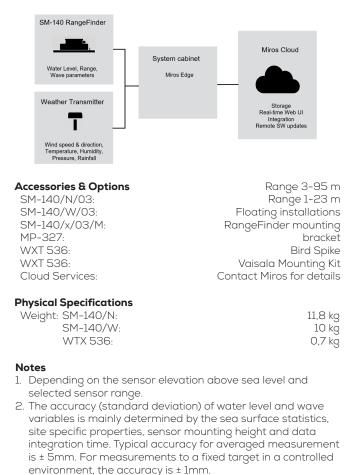
SPECIFICATIONS

Distance 3 - 95	2 m 1 cm < 1 cm ² 28 s 0.1 s 0.1 s m/s 0.1 m/s ±3 % at 10 m/s ³ 60° 1° ±3° at 10 m/s ³ 0°C 0.1°C ±3°C RH 0.1% RH ±3 % RH RH ±5 % RH nPa 0.1 hPa ±5° hPa ⁴
Physical Interfaces Standard Interface:	CAT5e or better
Displays/UI Data, Status, Configuration Intergration Options Sensor data and status: Data Output Rate Miros Cloud:	Web-based UI JSON & CSV format from Miros Cloud Up to 10 Hz for air gap
Electrical Data RangeFinder: Frequency of Operation: Transmitted Power: Power consumption: EMC: Weather Transm., EMC	9.4 - 9.8 GHz, Triangular FM 2 dBm ± 3 dB (Nominal 1,6mW) < 7 W 2014/30/EU IEC 60945 & 613226-1
Vaisala Weather Transmitter Supply Voltage: Power Consumtion: With optional heater: Environmental Specification: Sensors: Temperature: Humidity: Ingress Protection: RangeFinder: Weather Transmitter: Central equipment:	6 - 24 VDC Nom. 15W, Max. 17W Nom. 25W, Max. 35W -30°C to +50°C 0 - 100 %RH IP 67 IP 66 ⁵ Indoor and outdoor versions available

The WaveWeather system consists of IoT-enabled devices, a Miros RangeFinder and a Vaisala WTX 536 Weather Transmitter, both securely connected to the Miros Cloud.

The Vaisala transmitter provides weather data while RangeFinder provides the non-directional wave measurements in all weather conditions, undisturbed by fog, rain, or moisture.

Together with Miros Cloud the system is complemented with various value adding services, such as data storage and download, data applications, device management and integration with weather- and tidal -forecast services.



- 3. Wind: at 10 m/s wind speed; Temperature: for sensor element at 20°C
- 4. For T_{amb} 0 30°C. For T_{amb} -52 to +60: +/-10 hPa
- 5. With the optional WXT mounting kit

Please refer to the SM-140 RangeFinder and Vaisala WTX 536 datasheets for additional information.

Specifications are subject to change without prior notice.

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XX MIROS

www.miros-group.com