

The *WaveRadar REX*² is the latest development in reliable sea surface measurement. It is significantly smaller, lighter, consumes ten times less power than its predecessor, and is fully backwards compatible with existing *WaveRadar REX* installations.

The *WaveRadar REX*² uses a 26 GHz radar sensor at its core, utilising *Emerson*'s proven microwave FMCW technology. Higher frequency sampling enables a greater measurement range up to 80 metres from sea surface, with no loss of accuracy or precision. The unit benefits from fewer export restrictions than other microwave radar sensors.

An LCD screen enables in-situ sensor data and health checks, while the stainless steel and weather-resistant plastic construction maximises longevity in dynamic marine conditions.

With internationally recognised hazardous zone certifications, *WaveRadar REX*² can be used in almost any location around the world.

New software developments make motion-compensated wave measurement from both static floating platforms & moving vessels easier than ever, whilst allowing advanced configuration and health checking during deployment.

KEY FEATURES

○ 3-80m MEASUREMENT RANGE

- EXTREMELY LOW POWER
- o REAL TIME DISPLAY
 - COMPACT & LIGHTWEIGHT
- MULTIPLE OFFSHORE HAZARDOUS CERTIFICATIONS
 - MINIMAL EXPORT RESTRICTIONS





GR FRAME

The GR frame is specifically designed for the *WaveRadar Rex*². It is designed to provide a stable, rigid platform that complements the high performance of the *Rex*². It is designed to withstand the harshest conditions.

TECHNICAL SPECIFICATIONS

*Specifications subject to change without notice

PERFORMANCE Measurement Range: 3 - 80 m

Accuracy: 3 - 6 mm Sampling Rate: 10 Hz

Microwave Sensor Frequency: 26 GHz (open frequency)

Automated error correction

WARRANTY 18 months standard

3 years extended 5 years extended

DATA & POWER Output Data Rate: 2 - 10 Hz (user configurable)

Data Output Format: Direct to RS485 USB & Ethernet Connection Optional

Power Supply: 9-36 VDC

Power Consumption: Average 0.4 W, Peak 1 W

SOFTWARE OPTIONS WaveConfigurator set up software

WaveView Connect processing & display software

Motion Compensation extension for floating vessel installations

HARDWARE LCD sensor display

Weathershield construction: SS316 & PTFE

Sensor construction: SS316 & PTFE

DIMENSIONS Weight: Unpacked / Packed ~ 9 kg / 21 kg

Size: Unpacked / Packed \sim 25 x 25 x 37 cm / 40 x 40 x 55 cm

CERTIFICATIONS Europe: E1 ATEX Flameproof: (FM15ATEX0055X)

USA: E5 Explosionproof (XP): (FM-US FM16US0010X) Canada: E6 Explosionproof: (FM-C FM16CA0011X)

International: E7 IECEx Flameproof: (IECEx FMG15.0033X)

RoHS compliant lead-free PCBs Low cost uncertified version

WAVEVIEW CONNECT

Wave View Connect software provides robust real-time processing of raw wave data from one or more sensors. The programme produces a full set of wave and tidal sea state parameters, which can be displayed locally, on the web, or output to third party applications. Wave View Connect's optional motion compensation extension enables high quality wave data from a moving vessel.

