

# WaveRadar REX<sup>2</sup>

The latest development in reliable sea surface measurement

Improving upon RS Aqua's world leading WaveRadar REX, the REX<sup>2</sup> is the new standard for wave and sea level measurement in offshore, maritime and coastal environments.

The WaveRadar REX<sup>2</sup> is the latest development in reliable sea surface measurement. It is significantly smaller, lighter and consumes 10 times less power than its predecessor, and is fully backwards compatible with existing WaveRadar REX installations.

WaveRadar REX<sup>2</sup> is designed for static installations (e.g. platforms, turbines, jetties) or for moving vessels. New software developments make motion-compensated wave measurement from floating vessels easier than ever, whilst allowing advanced configuration and health checking of the REX<sup>2</sup> whilst deployed.

An LCD screen enables instant checking of sensor data and health, and the stainless steel and weather-resistant plastic maximises longevity in dynamic marine conditions.

The WaveRadar REX<sup>2</sup> uses a 26 GHz microwave radar sensor at its core, utilising Emerson's proven microwave FMCW method. Higher frequency sampling enables greater measurement range, at up to 80 metres from sea surface with no loss of accuracy. The 26 GHz microwave benefits from fewer export restrictions than other microwave radar sensors. With internationally recognised hazardous zone certifications, WaveRadar REX<sup>2</sup> can be used in almost any location globally.

## Key Features

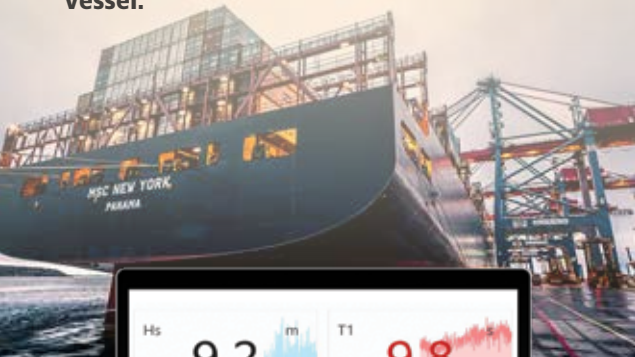
- » 3 – 80 m measurement range
- » Extremely low power
- » Real time display
- » Compact and lightweight
- » Multiple offshore hazardous certifications
- » Minimal export restrictions





## WaveView Connect Software

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



## Technical Specifications

<b>PERFORMANCE</b>	Measurement Range: 3 - 80 m
	Accuracy: 3 - 6 mm
	Sampling Rate: 10 Hz
	Microwave Sensor Frequency: 26 GHz (open frequency)
	Automated error correction
<b>WARRANTY PERIOD</b>	18 months standard
	3 years extended
	5 years extended
<b>DATA &amp; POWER</b>	Output Data Rate: 2 - 10 Hz (user configurable)
	Data Output Format: Direct to RS485
	USB & Ethernet Output
	Power Supply: 9-36 VDC
	Power Consumption: Average 0.4 W, Peak 1 W
<b>SOFTWARE OPTIONS</b>	WaveConfigurator set up software
	WaveView Connect processing & display software
	Motion Compensation extension for floating vessel installations
<b>HARDWARE</b>	LCD sensor display
	Weathershield Construction: SS316 & PTFE
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<b>DIMENSIONS</b>	Weight: Unpacked / Packed ~ 9 kg / 15 kg
	Size: Unpacked / Packed ~ 25 x 25 x 37 cm / 40 x 40 x 55 cm
<b>CERTIFICATIONS</b>	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

\*Specifications subject to change without notice.