



# WaveRadar Rex

## Wave and Sea Level Sensor

S E R V I N G O C E A N O G R A P H Y

**A third generation, non-invasive, highly stable system for the measurement of Waves and Sea Level in the offshore, renewable energy and coastal monitoring environments.**

### APPLICATIONS

- Safety status monitoring
- Structural monitoring
- Weather forecasting
- Air-gap studies
- Sea state assessment for operations
- Input to Met-Ocean systems
- Water level observations
- Wind farm monitoring

WaveRadar Rex is manufactured by Rosemount, Gothenburg, Sweden and is distributed exclusively by RS Aqua Ltd. The device is a derivative of Rosemounts TankRadar, many thousands of which are in global operation. The Rex version is an enhancement of the original WaveRadar, first introduced in 1994.



Image courtesy of Fugro Structural Monitoring

Microwave radar is a perfect medium for the extreme demands of the harsh offshore environment. The downward looking non-contact sensor uses a microwave radar technique to measure distance to the sea surface. Sampled at high frequency, the radar pulses provide an exceptionally stable and accurate measurement of sea surface profile. The microwave signals are very low in power and present no safety hazard. Information is continuously collected and processed to provide precision distance measurement outputs to a data bus. Output values can be displayed and stored to industry standards on a remote PC or may be interfaced to multi-parameter environmental monitoring systems. Output values can also be displayed on an optional remote display unit, model RDU40.

WaveRadar Rex provides digital (RS232) and analogue (current loop) outputs as standard with either AC (M) or DC (D) power options. The sensor is EEx hazardous zone certified by BASEEFA03ATEX and Underwriters Laboratory.

### TYPICAL USERS

Shell Exploration ~ Maersk Oil & Gas ~ BP Amoco ~ Exxon Mobil ~ GE Wind Energy ~ BHP ~ Fugro Oceanor  
KORDI ~ Petronas ~ Channel Coast Observatory ~ Strainstall ~ Fugro Structural Monitoring ~ Metocean Engineers  
Vestas ~ BMT Scimar ~ Chevron ~ Rijkswaterstaat ~ Muir Matheson ~ Semco Energi ... and many more.

### FEATURES

- Stable in the most adverse weather conditions
- Suitable for permanent or temporary installation
- BASEEFA03ATEX or UL EEx - certified
- Accurate to mm precision
- No re-calibration required
- Optional remote display (RDU40)
- Non-contact sensor
- Small size and weight
- Auto starting
- Ideal upgrade for existing systems
- Analogue & digital outputs
- AC and DC versions
- Recognised as the industry standard
- Optional PC display/logging software
- ISO 9001 manufacturer
- Optional mounting frame

