

# Wave Height Sensor ER

Nominal Wave Height, Extended Range, with External Data Trigger

O'CONNOR



This radar based sensor is a remote sensing, all weather radar ranging device for monitoring the height of waves. Mounted over the water, the sensor continually measures the distance to waves below. An internal processor calculates the nominal wave height over the last 10 or 20 minute interval. The data is then transmitted to a remote computer or display via RS232, RS422, RS485, or TCP/IP protocol upon an external data trigger command. The Wave Height Sensor's operating frequency allows effective performance in limited visibility conditions.

## Features

- High range precision, no pulse radar
- Weather penetration
- Choice of Enclosures
- Data on command



*Wave Height Sensor  
In  
Explosion Proof Stainless  
Steel Enclosure*

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## Sensor Specifications

<b>Sensor Type</b>	FMCW radar, 24 GHz
<b>Antenna</b>	125 mm diameter sealed lens, 5° beamwidth
<b>Range</b>	3 m to 60 m with nominally 3 cm range precision,
<b>Radar Sample Rate</b>	491 samples per second
<b>Temperature</b>	-40° C to +60° C
<b>Output Signal</b>	RS232, RS422, RS485, or TCP/IP data stream of nominal wave height over last 10 or 20 minutes (internally selectable), 9600 Baud, 8n1, data on command or data transmitted at 1 minute intervals.
<b>Input Signal</b>	Data Send Command (optional)
<b>Power Connection</b>	Hard wired inside enclosure
<b>Power Required</b>	12 V dc (11 to 16 V dc), 0.6 Amps, solar power package available
<b>Size</b>	Stainless Steel Enclosure: 32 cm l x 26 cm w x 26 cm h, 12 kg or Cast Aluminum Enclosure: 28 cm l x 28 cm w x 24 cm h, 10 kg



*Wave Height Sensor  
In  
Cast Aluminum Enclosure*