

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

Sensor Type	FMCW radar, 24 GHz
Antenna	125 mm diameter sealed lens, 5° beamwidth
Range	3 m to 60 m with nominally 3 cm range precision,
Radar Sample Rate	491 samples per second
Temperature	-40° C to +60° C
Output Signal	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.
Input Signal	Data Send Command (optional)
Power Connection	Hard wired inside enclosure
Power Required	12 V dc (11 to 16 V dc), 0.6 Amps, solar power package available
Size	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*