

BRIZO

Wave Monitoring & Tide Gauge using GNSS

WITH DATA LOGGING AND TELEMETRY OPTIONS

Need to add a wave sensor to your equipment?

Measure, record, & transmit full wave parameters

Add RTK corrections for water level parameters.

KEY FEATURES

- Measure Both Wave Height and Direction
- Wave Motion Sensor using GPS L1 and L2 Signals
- Internal Logger

OPTIONS

Cellular Module

for data transmission

Iridium SBD Module

for unlimited range & ocean-wide coverage

868.915 MHz Radio

RTK configuration

for tide and storm surge measurements



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TECHNICAL SPECIFICATIONS*

BRIZO



Data Outputs

Wave Statistics: Max Wave Height/Period, Significant Wave Height/Period, Average Wave Height/Period, Peak Period, Mean Wave Direction, Mean Spread

These are frequently used wave stats but not a complete list.

Wave Spectra: Directional wave spectra (energy & Fourier coefficients vs frequency) with 32, 64, 128, 256, 512 bins

Data Output Rate: fully configurable

Electrical

Input Voltage: 9-27 VDC

Operating temperature: -40°C to +60°C (standard)

Supports a wide range of GNSS and Choke Ring External Antennas

GNSS

Supports GPS, GLONASS and SBAS

Dual Frequency, L1/L2

136 Channels

Output up to 20 Hz

Accuracy

Better than 1%, Better than 1%, 3°

Communications (Internal Options)

Iridium 9523 (RUDICS and SBD)

Cellular (GPRS, CDMA, HSPA+, LTE, SMS)

XBee-PRO 900HP, 24dBm/250mW Tx Power/Mesh Network

WiFi (802.11 B/G/N)

Communications (Standard)

Serial – 2 x RS-232/485 with h/w flow control

SDI-12

BTLE 4.0

USB – Full speed USB configuration/diagnostic Port

CanBus – 1Mbps 2.0 A/B

Ethernet – 10 Base-T/100 Base-T

Supports TCP/IP

Sampling

Sampling Frequency: 2Hz

Measurable Wave Period Range: 0.64Hz (1.56 seconds) to 0.030Hz (33.33 seconds), optional RTK configuration increases frequency range to 24hr.

Duration, Sample Interval & Averaging Periods: Configurable

Data Storage

Storage: 2x 16GB microSD card, optional remote communication modules

**Specifications subject to change without notice*



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All Xeos products are fully backed by a comprehensive warranty and excellent support. To arrange a demo or learn more about our products, please call or email our sales team.

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