



Ocean Sensor Systems, Inc.

Sonic Wave Sensor XB, OSSI-010-035 vs Wave Staff XB, OSSI-010-025

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Characteristics:

Features:	Wave Staff (Rod or Cable Staff)	Sonic Wave Sensor
Part Number	OSSI-010-025-	OSSI-010-035-
Basic Unit Price USD	\$1,155.00 to \$1,652.00	\$1,045.00
Battery Pack	3 Volt 2 alkaline C cells	3 Volt 2 alkaline C cells
Water submersion package	Yes, IP-67	Yes, IP-67
Case	8.08" x 1.706" ABS Plastic	8.08" x 1.706" ABS Plastic
Sensor Type	Capacitive Sensing Staff	Ultra Sonic Transducer
Range	Staff options 0.5 to 20 meters	2.5 meters (See data sheet)
Accuracy	0.25% FS	0.25% FS
Accuracy suffix E	0.1% FS	0.1% FS
Resolution	0.1mm	0.1mm
Long Term Stability	0.05%FS	0.05%FS
Data Linearity	0.25% FS	0.25% FS
Data Linearity suffix E	0.1% FS	0.1% FS
Sample rates	1 Hz to 32Hz	1 Hz to 32 Hz
Data Hysteresis	0.3mm Typical	0.0 mm
Wireless Connection	XBee ZB & ZB PRO 2.4GHZ	XBee ZB & ZB PRO 2.4GHZ
Sample Burst Time	0-59 minutes	0-59 minutes
Sample Burst Interval	1-60 minutes	1-60 minutes
RTC Accuracy (Auto Time Sync) off	20 ppm Max.	20 ppm Max.
Auto Time Synchronize to PC	0.01 second	0.01 second
Data Format	Continuous or Buffered	Continuous or Buffered
Burst or Continuous Sampling	Yes	Yes

Wave Performance:

Features:	Wave Staff	Sonic Wave Sensor
Large Waves, Fresh Water	Excellent	Excellent
Small Waves, Fresh Water	Excellent	Excellent
Millimeter Waves, Fresh Water	Poor	Excellent
Large Waves, Intracoastal or Harbor Water	Fair	Good
Small Waves, Intracoastal or Harbor Water	Fair to Poor	Excellent
Millimeter Waves, Intracoastal or Harbor Water	Poor	Excellent
Large Waves, Ocean Water	Excellent	Good
Small Waves, Ocean Water	Good	Excellent
Breaking Waves	Good	Fair to Poor
Rain, Heavy	Good	Poor
Rain, Light	Excellent	Good
Air Temperature	Excellent	Good
Water Temperature	Good	Excellent