

WG-50

Wave Height Gauge

NEW
USB Interface



The WG-50 is used to measure wave heights to an accuracy of 0.4%. This capacitance wave height gauge has a linear response and is perfect for hydraulics laboratories with either small or large wave tanks. The WG-50's all-weather construction also makes it useful for measuring in situ waves, harbour tides and coastal wash.

Features:

- Low Cost
- High Accuracy
- Fast Response
- Low Power
- USB Interface

A number of probe lengths can be used. The standard probe length is one metre but larger probes are also available. The WG-50 can also operate in a master-slave setup so that interference can be avoided when two or more probes may be positioned close together.

The WG-50 consists of a weatherproof control unit (shown: 16cm x 11cm x 8.5cm), a BNC cable 30cm to 100cm in length, and a wave probe. The control unit has a BNC connector for connecting the probe and a Bendix Pigmy 6 pin connector for power input and signal output.

Technical

Power:	9V to 18V DC
Communications:	USB (with NI USB-6008/9 DAQ)
Output Signal:	Analog ± 5 Vdc;
Accuracy:	$\pm 0.4\%$
Standard Probe:	10cm to 3m
Operating Temp.:	-10°C to +40°C
Size:	160mm x 110mm x 85mm

For more details, please visit our website: www.rbr-global.com



The USB-600x[®] Data Acquisition Modules provide an easy 'plug-and-play' interface between the WG-50 and any computer with a USB port.

8 analogue input channels are available on each module facilitating the connection of multiple wave gauges to one USB port. The USB-6008 and USB-6009 modules provide 12 and 14 bit resolution respectively, and have maximum sampling rates of 10 and 48 kS/s.

Software

Basic software is provided which allows for adjustable sampling rates, graphical display of data in real-time, and logging to an Excel[®] file for further analysis. For more complex functionality and customisation, the USB-6008[®] DAQ may be easily interfaced to National Instruments[™] LabVIEW[®] software

