



TideMaster

TideMaster has been designed to provide an accurate, versatile and easily deployed tide gauge for use in short or long term survey operations with either pressure or radar sensor measurement. Data display panel, Bluetooth, SD card memory and weather sensor interface provide unrivalled functionality. Low power consumption and user selectable sampling regime allow for up to a year of autonomous operation.

A number of Telemetry packages are available to extend the system's capabilities to real time operations. TideMaster is compatible with a wide range of hydrographic software packages and tools.

Please also see TideStation, a self-contained Tidal Observation solution packaged to optimise performance, be flexible in its configuration and simple to install and maintain.

DATA SHEET

Product Details



TIDE GAUGES



MULTI-PARAMETER CTD



TIDEMASTER EXPRESS



Bluetooth

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Pressure Transducer Option

Type	Vented strain gauge, with stainless steel mounting
Range	Standard 10 dBar (~10m) with 20m cable Other ranges and cable lengths available.
Accuracy	±0.1% Full Scale
Calibration	Held within logging unit
Dimensions	18mm diameter x 80mm

Radar Level Sensor Option (see VRS-20 data sheet for full details)

Range	minimum: 0.8 m maximum: 20m
Beam Angle	±6°
Frequency	25 GHz
Accuracy	±10 mm
Precision	1 mm

Range (radius at different ranges)	Range (m)	Radius (m)
	2	0.21
	5	0.53
	10	1.05
	20	2.10

Weather Sensor Options - Windsonic Ultrasonic Anemometer

Wind Speed	0-60m/s
Wind Direction	0-359°
Calibration	Held within sensor

MetPak II TM Weather Station

Wind Speed	0-60m/s
Wind Direction	0-359°
Air Temperature	-35°C - +70°C
Relative Humidity	0 - 100% RH
Barometric Press	600 - 1100 hPa/mbar
Dew Point	As per temperature range
Calibration	Held within sensor

miniCT Sensor

Conductivity	
Type	Valeport inductive cell
Range	0 - 80mS/cm
Accuracy	±0.01mS/cm
Resolution	0.001mS/cm

Temperature

Type	Titanium housed PRT
Range	-5 - +35°C
Accuracy	±0.01°C
Resolution	0.001°C

Logging Unit

Housing & Bracket	Injection moulded housing rated to IP67
Power	· 4 x C cell batteries within separate sealed compartment · Tool-less battery change · Alkaline cells provide power for up to a year of autonomous sampling
Memory	512 MB SD card memory (effectively unlimited data storage)
Sampling	· Raw data sampled at 8Hz (mean and SD of burst samples is logged) · 5 pre-programmed burst modes · Custom sampling mode. · Continuous Sampling Mode (1Hz)
Switching	Power switch on unit
Resolution	Data logged to 1mm resolution
Comms	Integral Bluetooth for short range wireless communication RS232/RS485 for cabled communication

Dimensions	Housing: 52 mm x 144.5 mm x 197 mm Bracket: 35 mm x 210 mm x 159 mm Mounted: 61.5mm x 210 mm x 197 mm
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Weight	~1.1 kg including batteries
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Telemetry

Radio	see UHF telemetry data sheet for full details
Frequency	Selectable frequency UHF synthesized radio transceiver, (403...473MHz)

Software

System is supplied with TideMaster Express Windows based PC software, for instrument setup, data extraction and display.

Ordering

0741001	TideMaster portable water level recorder
Notes	Systems supplied with · Electronics/Logger in rugged injection moulded housing · Wall mounting bracket · Batteries · Windows TideMaster Express software · Operating Manual A Transducer option below is required
0741PTID20	1 bar transducer includes 20m cable and connector, other cable lengths are available up to 100m maximum
0745001	VRS-20 Radar level sensor with: Mounting bracket, 5m power/data cable Junction box, software, manual and transit box

Options

0745EA XX	VRS-20 Junction Box to TideMaster interface lead XX is length in metres – choose: 5, 10 , 20m
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