



DATA SHEET

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, wireless technology, 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 optional 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.

Product Details



TIDE
GAUGES



MULTI-PARAMETER
CTD



TIDEMASTER
EXPRESS



WIRELESS

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 (VEGAPULS C23)		
Range	0.1 m - 30 m	
Beam Angle	4°	
Frequency	80 GHz	
Accuracy	±2 mm	
Precision	<2 mm	
Range (radius at different ranges)	Range (m)	Footprint (m)
	1	0.14
	5	0.70
	10	1.40
	20	2.80
	30	4.20

Weather Sensor Options - Windsonic Ultrasonic Anemometer	
Wind Speed	0-60m/s
Wind Direction	0-359°
Calibration	Held within sensor

MetConnect (Metpak) 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	Temperature
Type	Valeport inductive cell	Titanium housed PRT
Range	0 - 80mS/cm	-5 - +35°C
Accuracy	±0.01mS/cm	±0.01°C
Resolution	0.001mS/cm	0.0001°C

Logging Unit	
Housing & Bracket	Injection moulded housing rated to IP67
Power	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 wireless module for short range wireless communication
Dimensions	RS232/RS485 for cabled communication
	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
Weight	~1.1 kg including batteries
Telemetry (optional - not provided as standard)	
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	<p>Systems supplied with</p> <ul style="list-style-type: none"> Electronics/Logger in rugged injection moulded housing Wall mounting bracket Batteries Windows TideMaster Express software Operating Manual <p>A Transducer option below is required</p>
0741PT1D20	1 bar transducer includes 20 m cable and connector, other cable lengths are available up to 100 m maximum
0745007-C23-25	VEGAPULS C23 80 GHz W-Band radar level sensor. Supplied with mounting bracket, junction box and 25 m cable as standard.
Options	
Please contact valeport-sales@teledyne.com if you require CT or Met adding to your system.	

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