

## 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 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**





#### MULTI-PARAMETER CTD





**Valeport Limited** St. Peter's Quay, Totnes, Devon TO9 5EW United Kingdon

Telephone: +44 (0) 1803 869292 Email: sales@valeport.co.uk www.valeport.co.uk



Pressure Tra	nsducer Option		
Туре	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 80m	m	
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	Range (m)	Radius (m)	
different ranges)	2	0.21	
	5	0.53	
	10	1.05	
	20	2.10	
Weather Ser	nsor Options - Wind	Isonic Ultrasonic Anemometer	
Wind Speed	0-60m/s		
Wind Direction	0-359°		
Calibration	Held within sensor		
MetPak II TM	1 Weather Station		
Wind Speed	0-60m/s		
Wind Direction	0-359°		
Air Tempera- ture	-35°C - +70°C		
Relative Humidity	0 – 100% RH		
Barometric Press	600 – 1100 hPa/mbar		
Dew Point	As per temperature rar	nge	
Calibration	Held within sensor		
miniCT Sens	or		
Conductivity			
Туре	Valeport inductive cell		
Range	0 - 80mS/cm		
Accuracy	±0.01mS/cm		
Resolution	0.001mS/cm		

Temperature		
Туре	Titanium housed PRT	
Range	-5 - +35°C	
Accuracy	±0.01°C	
Resolution	0.001°C	
Logging U	nit	
Housing & Bracket	Injection moulded housing rated to IP67	
Power	<ul> <li>4 x C cell batteries within separate sealed compartment</li> <li>Tool-less battery change</li> <li>Alkaline cells provide power for up to a year of autonomous sampling</li> </ul>	
Memory	512 MB SD card memory (effectively unlimited data storage)	
Sampling	<ul> <li>Raw data sampled at 8Hz</li> <li>(mean and SD of burst samples is logged)</li> <li>5 pre-programmed burst modes</li> <li>Custom sampling mode.</li> <li>Continuous Sampling Mode (1Hz)</li> </ul>	
Switching	Power switch on unit	
Resolution	Data logged to 1mm resolution	
Comms	Integral wireless module 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	
Weight	~1.1 kg including batteries	
Telemetry		
Radio	see UHF telemetry data sheet for full details	
Frequency	Selectable frequency UHF synthesized radio transceiver, (403473MHz)	
Software	upplied with TideMactor Express Windows based DC	

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	
0741P11D20	i par transoucer 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	

#### Datasheet Reference: TideMaster | July 2023

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