

# 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, 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.

## Product Details





#### MULTI-PARAMETER CTD





TAE KWANG ELECTRONICS CORPORATION5TH FLR., K-BLDG., 3, SANGAM-RO 41GIL,GANGDONG-GU, SEOUL 05307, KOREA

PHONE: 02 479 2703 FAX: 02 479 2705 e-mail: taekwang@tkec.co.kr Website: www.tkec.co.kr



Pressure Tra	ansducer Option		Temp
Туре	Vented strain gauge, wit	h stainless steel mounting	Туре
Range	Standard 10 dBar (~10m) Other ranges and cable		Range
Accuracy	±0.1% Full Scale		Accur
Calibration	Held within logging unit	t	Resolu
Dimensions	18mm diameter x 80mn		Log
Radar Level	Sensor Option (see V	'RS-20 data sheet for full details)	Housi & Brad
Range	minimum: 0.8 m   maxir	num: 20m	Powe
Beam Angle	±6°		
Frequency	25 GHz		Memo
Accuracy	±10 mm		Samp
Precision	1 mm		
Range (radius at	Range (m)	Radius (m)	_
different range	s) 2	0.21	Switc
	5	0.53	Resol
	10	1.05	Comn
	20	2.10	
Weather Se	nsor Options - Winds	sonic Ultrasonic Anemometer	Dime
Wind Speed	0-60m/s		
Wind Direction	0-359°		Weigl
Calibration	Held within sensor		
MetPak II T	M Weather Station		Tele
Wind Speed	0-60m/s		Radio
Wind Direction	0-359°		Frequ
Air Tempera- ture	-35°C - +70°C		Soft Syste
Relative Humidity	0 – 100% RH		
Barometric Press	600 – 1100 hPa/mbar		Orde
Dew Point	As per temperature rang	ge	07410 Notes
Calibration	Held within sensor		Notes
miniCT Sen	sor		
Conductivity	/		
Туре	Valeport inductive cell		0741P
Range	0 - 80mS/cm		
Accuracy	±0.01mS/cm		07450
Resolution	0.001mS/cm		
			Opti

уре	Titanium housed PRT	
Range	-5 - +35°C	
Accuracy	±0.01°C	
Resolution	0.001°C	
Logging Ur	it	
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 (IHz)</li> </ul>	
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	
Weight	~1.1 kg including batteries	
Telemetry		
Radio	see UHF telemetry data sheet for full details	
Frequency	Selectable frequency UHF synthesized radio transceiver, (403473MHz)	
	Ipplied with TideMaster Express Windows based PC r 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	

1 bar transducer includes 20m cable and connector, other cable lengths are PT1D20 available up to 100m maximum

001 VRS-20 Radar level sensor with: Mounting bracket, 5m power/data cable Junction box, software, manual and transit box

### tions

0745EA XX

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

## Datasheet Reference: TideMaster | April 2020

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