



## DATA SHEET

# TideStation Permanent

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

TideStation has TideMaster at its core - Valeport's industry leading Tide Gauge system. Offering Pressure, Radar and hybrid tidal observation techniques coupled with interfaces to other meteorological and 3rd party systems. All data can be recorded locally and broadcast to a central command and control point as required.

Within the TideStation enclosure you will find all required ancillary infrastructure to maintain power to the Tide and Met equipment interfaced and your chosen communications systems.

### Product Details



TIDE  
GAUGES



MULTI-PARAMETER  
CTD



TIDEMASTER  
EXPRESS



WIRELESS



Rechargeable  
Battery

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## Tidal Observation

### Pressure Transducer Option

<b>Type</b>	Vented strain gauge with stainless steel mounting bracket
<b>Range</b>	Standard 10dBar (~10m), with 20m cable Other ranges and lengths available
<b>Accuracy</b>	±0.1% of full scale

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

<b>Minimum Range</b>	0.8 m
<b>Maximum Range</b>	20 m
<b>Beam Angle</b>	±6°
<b>Frequency</b>	25 GHz
<b>Accuracy</b>	±10 mm
<b>Precision</b>	1 mm

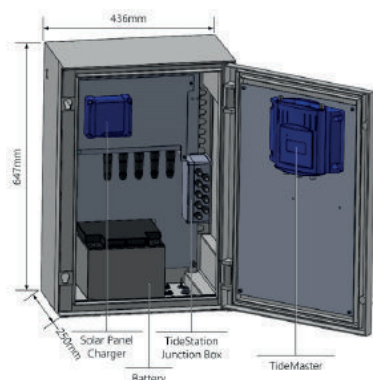
## Weather Sensor Options

### WindSonic Ultrasonic Anemometer

<b>Wind Speed</b>	0-60m/s
<b>Wind Direction</b>	0-359°
<b>Calibration</b>	Held within sensor
<b>Dimensions</b>	142mm x 160mm

### METPak II TM Weather Station

<b>Wind Speed</b>	0-60m/s
<b>Wind Direction</b>	0-359°
<b>Air Temperature</b>	-35°C - +70°C
<b>Relative Humidity</b>	0 - 100% RH
<b>Barometric Press</b>	600 - 1100 hPa/mBar
<b>Dew Point</b>	As per temperature range
<b>Calibration</b>	Held within sensor
<b>Dimensions</b>	142mm x 274mm



## Enclosure Configuration

- IP64 TideStation enclosure and Internal frame
- Power supply:
  - Lead Acid battery module (38Ah) (could be sourced locally)
  - 12V regulator for solar power charging
- Fittings for:
  - TideMaster
  - Dual telemetry options UHF / GPRS ip.buffer (4 port)
  - Auxiliary comm ports
  - Pressure relief valve

The TideStation Junction Box and wiring loom are fitted for ease of set up and the flexibility to reconfigure/expand the system at a later time.

## Ordering

There are 2 standard TideStation variants

<b>0741020-0</b>	Bare Base Station power loom, Solar PV charging and comms
<b>0741020-1i/p</b>	Single Port ip.Buffer*  TideStation Junction Box and wiring  optional Satel UHF radio  TideMaster, VRS-20 and Pressure Sensor
<b>0741020-4i/p</b>	4 port ip.Buffer*  TideStation Junction Box and wiring  optional Satel UHF radio  TideMaster, VRS-20, Pressure Sensor, miniCT, METPak II, plus other instruments

To interface other sensor packages please contact Valeport for details  
\*Valeport recommends Port-Log web based software from OceanWise

## Fitted Options

<b>0741EA54</b>	TideMaster display/logger module with mounting bracket
<b>0741PTID20/50</b>	1 bar transducer   specify 20 or 50 m cable
<b>0745001</b>	VRS-20 Radar level sensor with mounting bracket cable length to be specified
<b>0400582</b>	Scannex four port buffer - 4.g.N4X IP.4-128
<b>04000583</b>	Satel UHF Telemetry Module - TideStation
<b>04000569</b>	Satel UHF Telemetry Module - Base Station
<b>0741EA27</b>	MetPak Weather Station: Wind Speed & Direction, Temperature, Humidity, Barometric Pressure   cable length to be specified
<b>0741EA25</b>	Windsonic: Wind Speed and Direction   cable length to be specified
<b>BT-12V-38</b>	38Ah valve regulated lead acid battery
<b>0740MS43/44</b>	12V, 50W Solar PV module / mounting frame

## Datasheet Reference: TideStation Permanent | March 2023

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