



TideStation Portable



TideStation Portable is a self-contained Tidal Observation solution packaged to allow ease of installation and transportation but with a similar functional configuration to the larger TideStation.

TideStation Portable has TideMaster at its core - Valeport's industry leading Tide Gauge system offering Pressure or Radar tidal observation techniques. It can be interfaced to other Valeport and meteorological sensors. All data can be recorded locally and broadcast to a central command and control point as required.

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



TideStation Portable: 0741022-GPRS (ip.buffer)

Tidal Observation:

Pressure Transducer Option

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

Radar Level Sensor Option

(see VRS-20 data sheet for full details)

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

Battery Life Indication (fully charged 24Ah battery)

1x Pressure Transducer observation per minute each data set telemetered immediately	UHF radio	~300 days
	GPRS ip.buffer	~ 14 days
1x RADAR observation per minute each data set telemetered immediately	UHF radio	~ 35 days
	GPRS ip.buffer	~ 7 days

Weather Sensor Options

WindSonic Ultrasonic Anemometer

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

METPak II TM Weather Station

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

To interface other sensor packages please contact Valeport for details

Compliance

Directive	2014/53/EU (RED) 2011/65/EU (RoHS)
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Enclosure Configuration

- Adapted Peli 1560 - transportable hard case which has a retractable extension handle and strong polyurethane wheels.
 - 560 x 455 x 265 mm
 - corrosion-proof, crush-proof, IP67
- Fittings for:
 - TideMaster
 - 1 of 2 telemetry options:
 - Radio: SATEL - SATELLINE-M3_TR1
 - GPRS: 1 port Scannex ip.buffer
 - Batter Isolation switch
 - Lead Acid battery module (24Ahr)
- 12V Regulator (for solar power charging)
- Pressure relief valve
- Operational weight does not exceed 25kg



TideStation Portable - recessed connector bay

There are 2 TideStation Portable Variants

- 0741022-UHF • Wheeled hard case, fixtures and wiring for:
- TideMaster tide gauge
 - Associated sensor (vented pressure sensor or VSR20 radar)
 - UHF transmitter (403-470MHz)
 - 24Ah rechargeable lead acid battery & solar charger
- 0741022-GPRS • Wheeled hard case, fixtures and wiring for:
- TideMaster tide gauge
 - Associated sensor (vented pressure sensor or VSR20 radar)
 - Scannex ip.buffer - single port
 - 24Ah rechargeable lead acid battery & solar charger

Notes the 0741022-UHF/GPRS does not include a TideMaster, telemetry options, battery or solar panels which are ordered separately
data upload to user's own or 3rd party FTP site / data management system

Options

0741EA54	TideMaster display/logger module with mounting bracket
0741PT1D20/50	1 bar transducer specify 20 or 50 m cable
0745001	VRS-20 Radar level sensor with mounting bracket cable length to be specified
04000581	Scannex Single port buffer - ip.1-32.g.N4X
04000583	Satel UHF Telemetry Module - TideStation
04000569	Satel UHF Telemetry Module - Base Station
0741EA27	MetPak Weather Station: Wind Speed & Direction, Temperature, Humidity, Barometric Pressure cable length to be specified
0741EA25	Windsonic: Wind Speed and Direction cable length to be specified
BT-12V-24	12V, 24Ah valve regulated lead acid battery
0740MS43/44	12V, 5W Solar PV module / mounting frame