

## **VALEPORT 740 TIDE GAUGE**



## **GENERAL DESCRIPTION**

Valeport's popular Model 740 tide gauge has been designed to provide an accurate, easily deployed tide gauge for use in short or long term hydrographic survey operations. Low power consumption and user selectable sampling regime allow up to 2 years' autonomous operation, whilst the optional radio transmission package extends the capabilities for real time operations. Data output is compatible with the MIDAS Surveyor GPS Echo Sounder system.

**TRANSDUCER** 

Type: Vented strain gauge, with stainless

steel mounting bracket

Standard 10dBar (approx 10m) with Range:

20m cable. Other ranges and lengths

available

Accuracy: +/-0.1% Full Scale Held within logging unit Calibration: Dimensions: 18mm diameter x 80mm

**LOGGING UNIT** 

Housing:

Black anodised aluminium, waterproof to IP67 (0.5m for 30 secs) but system

includes transducer vent to

atmosphere. The electronics are sealed

from the vent.

4 "D' cells within housing. Alkaline Power: cells provide power for over 900 days

at 20minute sampling with burst length

of 10 secs.

Memory: 128kbyte solid state, allowing over 65,000 data points. Equivalent to over

900 days at 20 minute sampling. New data file created every time unit is

switched on by user.

Raw data sampled at 4Hz and logged Sampling:

as average over burst. Burst length is selectable between 1 and 60 seconds. Cycle time is selectable

from 1 minute or from 5 to 1440 minutes (1 day) in 5 minute steps.

Switching: Delay start time se by PC. Switch on by fitting waterproof plug or comms

lead to comms port.

Resolution: Data logged to 1mm resolution. Raw

data sampled at 14 bit (1:16384) resolution.

Comms:

RS232 via 3m cable to PC, or via 1m

cable to radio unit.

Dimensions: Housing 47mm x 110mm x 235mm.

Weight: 1.7kg (approx) including batteries.

**RADIO** 

Frequency: Selectable frequency UHF synthesised

radio transceiver, operating in UK

licence exempt band (458.5 -

458.9MHz).

Power Output: Supplied as normal 100mW peak

output.

RS232 Output: 4800 baud, 8, 1, N.

**Aerials** 

Transmitter: 1/4 wave 'rubber duck' (standard.

~2km)

3dB omni-directional (option, ~10km)

3dB omni-directional

Receiver: **Power Input** 

Takes power from Model 740 or from Transmitter:

external 12vDC supply

Current: 0.04mA sleep, 120mA receive, 410mA

transmit

Requires external 12vDC input Receiver: Current: 120mA receive, 410mA transmit

**Transmitter Physical** 

Materials: IP67 black anodised aluminium box

Size: 200mm x 200mm x 70mm

Connectors: To antenna, Model 740 & external

power supply

**Receiver Physical** 

Desktop style anodised aluminium Materials:

200mm x 180mm x 70mm Size:

Connectors: To antenna, 12vDC input & RS232

output

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