Valeport radio telemetry solutions are centered on our IP67 housed package offering UHF transmission options. The robust housing contains back up battery capability to cover short-term survey work or power outs. Compatible with most Valeport products, the units are designed to provide transparent links between instrument and operating software, as well as third party Internet / FTP data display services.

### Site Transceiver
- **Housing:** IP67 moulded ABS box with o-ring seals, and separate battery & electronics compartments
- **Power input:** Requires 9 – 29V DC.
- **Backup Battery:** The telemetry unit is fitted with 4 Alkaline D-Cell batteries to provide back-up power during long term deployments or power for short term deployments. Internal battery Capacity is 13,000mAH @ 6vDC (based on 75% efficiency).
- **Antenna:** Standard 0dB whip antenna, plugged directly onto housing. Optional 3dB omni-directional antenna with 10m cable.
- **Frequency:** 458.5 to 458.95 MHz
- **Channels:** 10 @ 0.05 MHz spacing
- **Channel select:** Push button switches inside housing
- **License:** Conforms to EN 300 220, EN 300 133 approvals.
- **Power output:** 500mW maximum, to comply with UK MPT1329 regulations.
- **Dimensions:** 260 x 160 x 55mm
- **Weight:** 2kg

### Base Transceiver
- **Housing:** Painted aluminum housing, with connections for antenna, PC interface and external DC power.
- **Power input:** 12V DC, via cable supplied.
- **Antenna:** 3dB omni-directional antenna with 10m cable.
- **Frequency:** 458.5 to 458.95 MHz
- **Channels:** 10 @ 0.05 MHz spacing
- **Channel select:** Push button switches on front panel
- **License:** Conforms to EN 300 220, EN 300 133 approvals.
- **Power output:** 500mW maximum, to comply with UK MPT1329 regulations.
- **PC Interface:** 9 pin D type connector with RS232 output to PC. 9 pin to 9 pin interface cable supplied.
- **Dimensions:** 200 x 180 x 90mm
- **Weight:** 2kg

### Antenna
- **Gain over ½ wave dipole:** 3dB
- **VSWR:** Better than 1.5:1 over the operating band
- **Max Input Power:** 150W
- **Input Impedance:** 50Ω
- **Bandwidth:** ±2% of centre frequency
- **Polarisation:** Vertical
- **Half Power Beamwidth:** 36º
- **Connection:** 10m length of RG213 terminated N type socket and PVC sleeve
- **Radiating Elements:** Brass rod plasfilm coated
- **Encapsulation:** Reinforced glass fibre tube
- **Length:** 1.160m @ 460MHz
- **Weight:** 1.1kg
- **Wind Loading:** 6.4kgf @ wind velocity of 160kph

### Ordering
- **04000566:** UHF Radio Transceiver in IP67 housing. Supplied with selectable frequency synthesised UHF radio (458.5 – 458.9MHz), “rubber duck” type antenna and comms lead to TideMaster.
- **FUC3-458M10:** Option: 3dB antenna and 10m cable for transmitter.
- **04000569:** Radio Receiver Unit in Desktop housing. Supplied with selectable frequency synthesised UHF radio (458.5 – 458.9MHz), 3dB antenna & 10m cable, external DC power lead and comms lead to PC.
- **04000570:** Radio Receiver Unit in Desktop housing with LED display. Supplied with selectable frequency synthesised UHF radio (458.5 – 458.9MHz), 3dB antenna & 10m cable, external DC power lead and comms lead to PC.
- **04000571:** Radio Receiver Unit in Desktop housing with LED display and selector switch for multi-gauge network. Supplied with selectable frequency synthesised UHF radio (458.5 – 458.9MHz), 3dB antenna & 10m cable, external DC power lead and comms lead to PC.
- **0740018:** Solar power option c/w solar panel, frame and battery pack in environmental housing.

### Note:
The customer’s responsibility to ensure that the chosen radio frequency is clear and available for use, and that any required fees are paid or licences obtained. Valeport accepts no responsibility or liability for system failure due to radio interference from a third party source.