

CM2 SIDESCAN SONAR C-SHELL SPECIFICATION

Issue 3, February '10

1. GENERAL

The CM2 C-Shell is a clamshell case that can be used as an optional waterproof (IP67) housing for the CM2 Sonar Transceiver (STR) whilst the STR is connected and operational. The C-Shell is fitted with internal connectors for the STR and waterproof (MIL-C-5015) external connectors for the tow cable, acquisition computer and DC power. The STR is secured to an internal mounting location, from which it can be easily removed and re-fitted as required.



The C-Shell has internal provision for a USB dongle (access key) for MaxView software, or for third-party software, running on the external acquisition computer. The C-Shell may also be specified with an internal GPS receiver. An internal USB hub combines the links from the STR, the dongle and the optional internal GPS receiver into a single USB link to the acquisition computer.

The external connector panel carries an on/off switch and power LED.

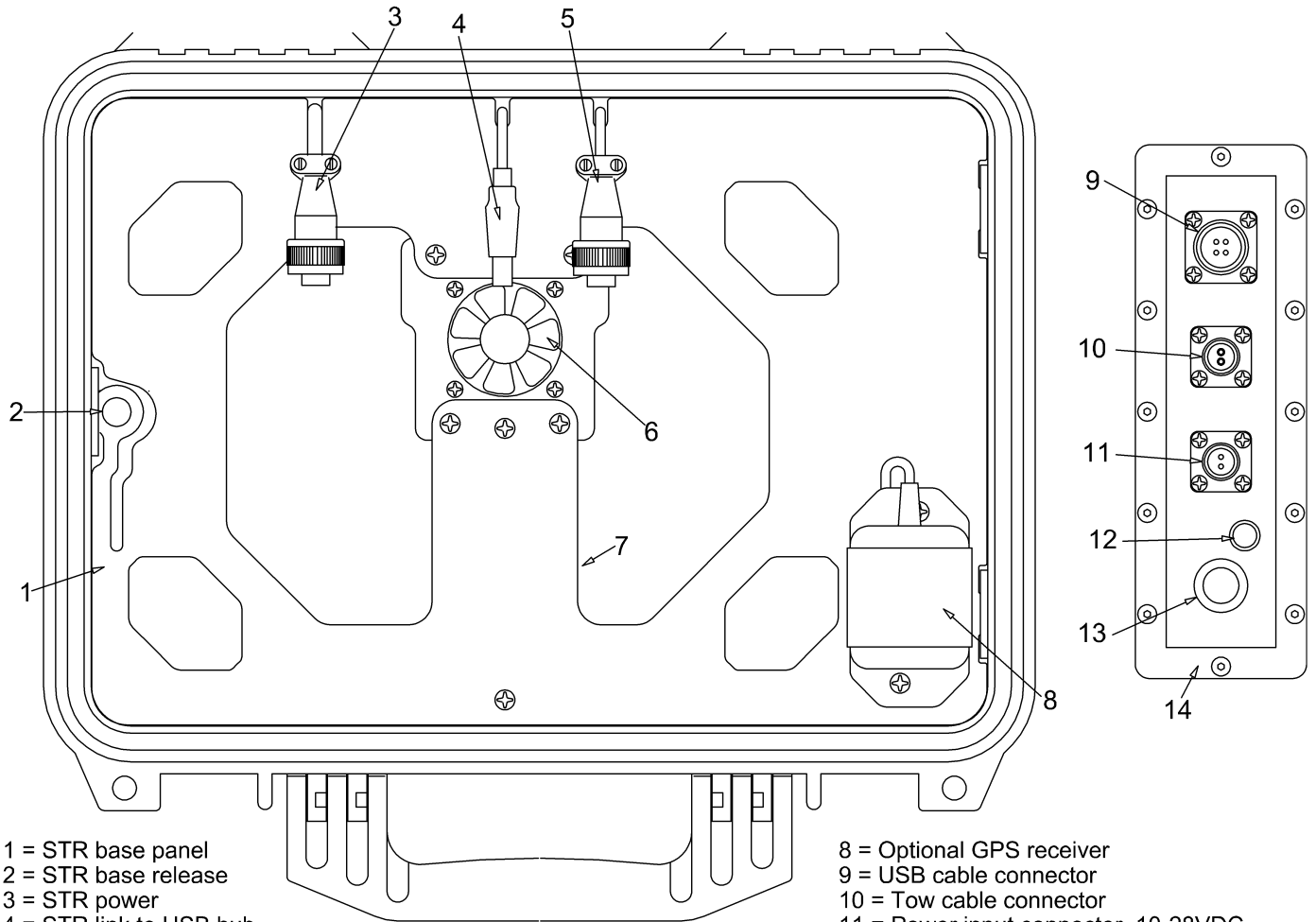
For the operation and other details of the STR refer to the latest issue of a separate document, CM2 SIDESCAN SONAR TRANSCEIVER (STR) SPECIFICATION.

2. INTERFACES

- Tow cable
- USB to acquisition computer
- DC power (10-28V)
- STR (internal)
- Dongle (internal)
- GPS receiver (internal)

3. MECHANICAL

The C-Shell uses a polypropylene clamshell enclosure, with O-ring seal, fitted with a stainless steel connector panel.
Dimensions: 41 x 33 x 18cm
Weight (with STR fitted): 6kg



- 1 = STR base panel
- 2 = STR base release
- 3 = STR power
- 4 = STR link to USB hub
- 5 = STR link to tow cable
- 6 = Fan (12VDC)
- 7 = 4-way USB hub, below STR base panel, for dongle, GPS, and STR

- 8 = Optional GPS receiver
- 9 = USB cable connector
- 10 = Tow cable connector
- 11 = Power input connector, 10-28VDC
- 12 = Power LED
- 13 = Power switch, push-on/push-off
- 14 = External connector panel

4. ENVIRONMENT

0 to +45°C; IP67; 40G, operating
 -10 to +55°C; IP67; 40G, non-operating

The above specifications may be changed without notice.

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