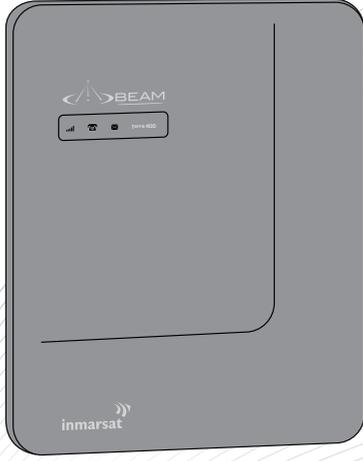
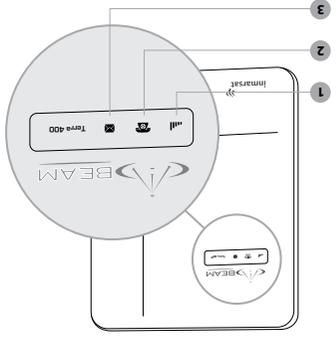


Terra 400 & Oceana 400 Quick Start Guide



1. Terra 400 & Oceana 400 Equipment Overview

1. Signal LED
2. Call LED
3. Message LED
4. Antenna TNC Connector
5. GPS SMA Connector
6. Wall Mounting Hooks
7. SIM Card Slot and Cover
8. USB Port
9. POTS/RJ11 Port
10. Power Port



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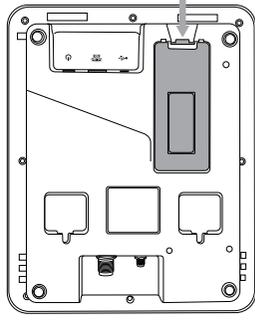
Tel: +61 3 8588 4500
Fax: +61 3 9560 9055

PART #: USRQSG006801

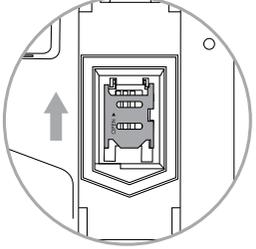
2. SIM Installation

If your Service Provider has not installed the SIM card for you, follow these steps to install.

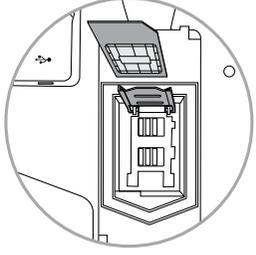
1. Turn power OFF to the Terminal. Failure to turn OFF can result in corruption of your SIM card memory.
2. Release the SIM cover by unclipping the latch with your finger or thumb. The SIM Cover is shown highlighted below.



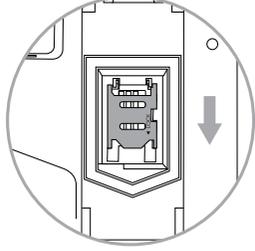
3. Slide the tray guide of the SIM connector into the Open position.



4. Raise the SIM tray as shown below.



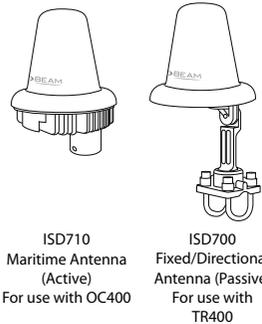
5. Gently insert the SIM card into the tray slots making sure that the golden connectors are facing downwards.
6. Lower the tray and slide the tray guide into the lock position.



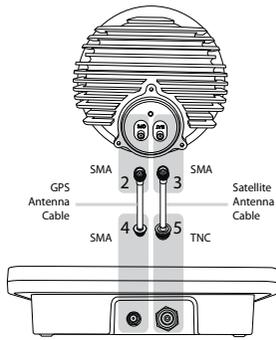
7. Replace the SIM cover.

3. Antenna Connection

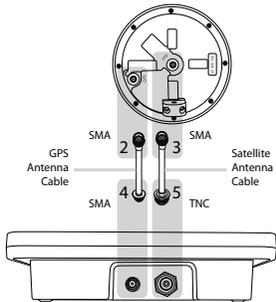
1. Refer to the antennas installation guide for antenna mounting and location requirements.
2. Connect the antenna cable labelled "GPS" to the SMA antenna connector labelled "GPS".
3. Connect the antenna cable labelled "Inmarsat" to the SMA antenna connector labelled "ISAT".
4. Connect the GPS-SMA (F) cable end to the IsatDock's SMA connector
5. Connect the TNC (F) antenna cable end to the IsatDock's satellite connector.



ISD710 - FOR USE WITH OC400



ISD700 - FOR USE WITH TR400



4. Connecting Power to the Terminal

The TR400/OC400 terminal can be powered from the supplied AC Plug pack, or connected to an external 10-32V DC power source.

ISD950 AC Plug Pack Installation

For installation using the ISD950 110-240 AC plug pack, connect the 4-way Microfit connector from the plug pack to the 4-way power connector on the rear of the TR400/OC400 terminal. In this configuration the status is always ON.

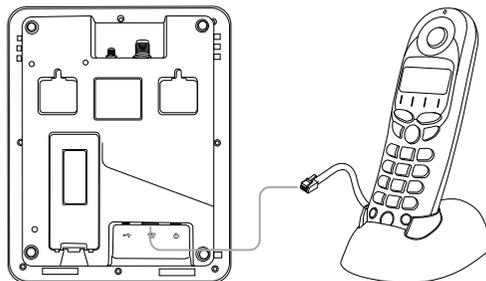
DC Power Source Installation

The RED and BLACK wires are used for the power connection. The YELLOW wire can be connected to a circuit to sync the ON/OFF status of the TR400/OC400 terminal with a vessels/in-building operation. By default, the TR400/OC400 terminal will stay on for 20 minutes after this input (YELLOW wire) is switched OFF. If a call is in progress while this occurs, the TR400/OC400 terminal will stay on for 20 minutes after the call is terminated.

1. Route the wire end of the DC power cable to the connection point.
2. Connect the BLACK wire to the negative terminal of the battery or the vessel chassis (if negatively grounded chassis).

5. Connect POTS/RJ11

Any standard analogue POTS telephone (POTS = Plain Old Telephone Service) is supported by the TR400/OC400 Terminal. The Terminal supplies power to the analogue phone as well as ring, dial and busy tones. The analogue phone can be connected by up to 600m (2000') of cabling to the TR400/OC400.



WARNING

DO NOT pull with force on the cables from the rear of the OC400/TR400. Please install strain relief clamping for the antenna cables where required. Correct installation of the antenna system is a vital part of the OC400/TR400 system, to ensure reliable functionality, and drop-free calls.



WARNING

Changes or modifications not expressly approved by Beam Communications could void the Terminals warranty.

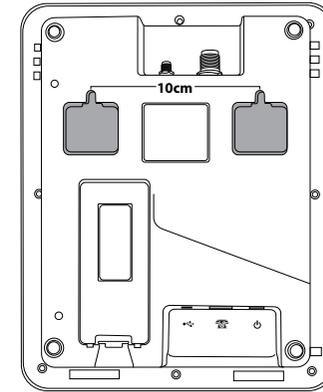
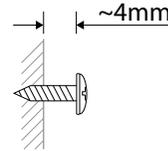


WARNING

To satisfy FCC RF exposure requirements for mobile transmitting devices, a separation distance of 55cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

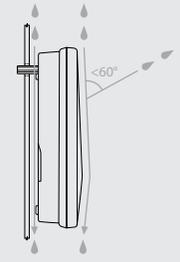
6. Wall Mounting & Locking Bolt

There are two mounting points at the back of the terminal (as shown, shaded, in the below image). The distance (from centre to centre) between the mounting points is 10 cm. To mount the terminal vertically on a wall, sit the two included screws with 4mm remaining out of the wall. Adjust this depth till the terminal hangs securely on the screws.



NOTE

Vertical (wall) mounting orientation is required to maintain IP53 rain protection.



7. Terra 400 / Oceana 400 Status Table

SIGNAL LED	GREEN	RED	YELLOW
ON	Good signal Registered	No signal Registered	Poor signal Registered
FLASHING	Good signal Not registered	No Signal Not registered	Poor signal Not registered
ALTERNATING	Alternating GREEN, YELLOW, RED. Error state entered. The Call and Message LED's indicate the error code.		
MESSAGE LED	GREEN	RED	YELLOW
ON	N/A	N/A	N/A
FLASHING	Voice mail has been received	SMS is present in the inbox	Both a voice mail and inbound SMS has been received
ALTERNATING	N/A	N/A	N/A
CALL LED	GREEN	RED	YELLOW
ON	POTS off-hook	N/A	DTR present on data port
FLASHING	POTS call in progress	N/A	Data call in progress (DCD active)
ALTERNATING	N/A	N/A	N/A

8. Terra 400 / Oceana 400 Types of Tones

TYPE OF TONE	SOUND	DESCRIPTION
Dial Tone	Continuous tone	Telephone ready for use
Progress Tone	Continuous short beep, with 3 second interval	Number has been dialled but call has yet to connect.
Unavailable Tone	Beeping tone (engaged)	Phone is not registered, or no signal. Calls cannot be made
SIM PIN Required	Alternating low and lower tones (1 sec intervals)	A SIM PIN is required to be entered
SIM PUK Required	Alternating low and lower tones (2 sec intervals)	A PUK code is required to be entered
Phone off-hook	Fast ascending tone, repeating.	Phone has been left offhook for > 15 seconds and is not in a call.