



OSSI-010-022 Wave Gauge

Wave Gauge Blue, OSSI-010-022

A Self Logging/Self Powered Pressure Sensor

Using RS485 Shore adapter See User Manual Appendix B: Change the Adapter Latency Time (msec) to 1.

This guide will assist the user to obtain data from the Wave Gauge Blue in the quickest time possible. The user is advised to read the manual in its entirety before actual deployment of the instrument. After unpacking the unit, check to see that there is a battery pack with a connector, a DB9 serial communication cable, a Wave Gauge Blue and compact flash card. If the compact flash card is user supplied, the Wave Gauge Blue will only accept 64 to 2000Meg size cards The top of the Wave Gauge Blue housing (the part with the label) unscrews from the bottom section. Use Latex Gloves to grip the case and prevent slipping and dropping it.





Insert the flash card in the bottom section of the case.

When installing the card do not force it. It should be pressed down lightly in the last 1/8 of an inch so that it is flush with the slot.



The battery cable may now be connected. The red LED will now signal on for 3 seconds.

After the LED signals for 3 seconds the unit will begin to collect data normally. If the red LED flashes rapidly several times consecutively, the initialization has failed and the battery should be unplugged and reinserted.



Insert the battery pack in the lower recessed section of the Wave Gauge Blue Case. Feed excess wires under the foam on top of the battery pack. Tape the center of the power cable such that all wires run within in the vertical foam slot. This will prevent the wires from being pinched when the case is screw together.



Before assembling the unit for deployment, a light coating of silicon o-ring grease should be applied to the o-rings and sealing surfaces.

Keep the lower section with the battery pack vertical while screwing the top section on. Do not screw them together too tightly or it will become difficult to reopen!

Use Latex Gloves to grip the case and prevent slipping and dropping it.



After deployment thoroughly dry all water off the case before opening it. Unscrew the top section and remove it.



Remove the white tape and place the battery next to the lower section. The power cable must remain connected.

Do not drip any SALTWATER or SWEAT inside the unit as this will corrode the circuitry!

Press the small, recessed button on the top of the electronics in the bottom half of the case. The red LED will begin to blink at a one second intervals to indicate the flash card file is closed. Now disconnect the power cable.



Remove the Compact flash care and insert it into a PC based Compact Flash Card Reader (user supplied).

The file may be viewed with the Wave Gauge Blue Interface program. The files may also be imported into Word Pad, Excel, Matlab or other text or analysis programs.

Note 1: See User Manual Appendix A for Blue Tooth setup.

**Note 2: See User Manual Appendix B for Shore connector and External Pressure Sensors options.
(-S) A very important note about the Wave Gauge Blue:**

Note 3: Remember to tell anyone using it that they **MUST NOT GET ANY SALTWATER or SWEAT INSIDE THE UNIT AS THIS WILL CORRODE THE CIRCUITRY!** It must be thoroughly dried before it's opened. Then lay the unit down on its side. Open the unit very carefully, if there is any water around the O Ring it will not fall into the unit and can be further dried. Hands must be totally dry when opening and handling the unit.

Note 4: See the user manual for information on changing the Wave Gauge Blue configuration.

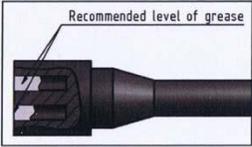
Note 5: Connector Greasing and Cleaning (-S and -P)



SubConn® handling instructions

Follow these instructions carefully to ensure you get the best out of your SubConn® connectors.

Greasing



- Connectors must be greased with Molykote 44 Medium before every mating

A layer of grease corresponding to approximately 1/3 of socket depth should be applied to the female connector. All sockets should be completely sealed, and transparent layer of grease left visible on the face of the connector

After greasing, fully mate the male and female connector and remove any excess grease from the connector joint

Cleaning

- General cleaning and removal of any accumulated sand or mud on a connector should be performed using spray based contact cleaner (isopropyl alcohol)

Scan to access SubConn® greasing and cleaning instruction videos



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Note 6: Connector and Cable Handling (-S and -P)

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UNDERWATER TECHNOLOGY

SubConn® handling procedures

The following procedures should be followed when using SubConn®:

- The connector should not be exposed to extended periods of heat or sunshine
- Should this occur and the connectors become very dry, they should be soaked in fresh water before use
- Ensure the connectors are lubricated with Molykote 44 Medium - but use very sparingly. In special cases where spray is the preferred lubricant, please contact MacArtney
- Any accumulation of sand or mud in the female contact should be removed with fresh water. Failure to do so could result in the splaying of the female contact and damage to the O-ring seals
- Do not over tighten the bulkhead nuts
- Disconnect by pulling straight, not at an angle. Do not pull on the cable and avoid sharp bends at cable entry
- When using bulkhead connectors, ensure that there are no angular loads as this destroys the connector

Follow these procedures carefully to ensure you get the best out of your connectors. If in doubt, please contact your local distributor or MacArtney A/S for advice.

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Note 7 : Pressure Sensor Diaphragm



Note 8: USE LATEX GLOVES to help grip the unit when opening and closing.

Note 9: Lubricant: ONLY USE SILICONE O-RING LUBRICANT type PolySi Technologies PST-841 or equivalent. Do not use any other type of lubricant as it may damage the unit.

Note 10: DO NOT USE BATTERY PACK IF IT WAS DROPPED OR SHOWS ANY SIGN OF DAMAGE: The battery may leak corrosive battery fluid and damage the unit.