



Global Tracker PTT

Ocean -ready Argos PTT

DESCRIPTION

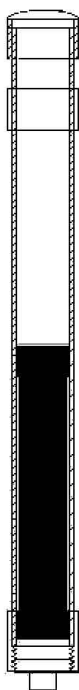
The Global Tracker PTT (Platform Transmitter Terminal) is designed to track objects on the high seas. Using durable materials and satellite technology, the Global Tracker survives the harshest and most remote of environments. Its unique antenna design permits the unit to be completely enclosed in a rugged protective housing which results in more robust performance than units carrying standard whip antennas. The electronics area is sealed and separated from the battery pack. This adds a measure of security and permits battery replacement by the User. The Global Tracker uses the Argos satellite system for data recovery and geolocation. Technocean, Inc. will be happy to assist coordinating your use of Argos.



Courtesy: NOAA/PMEL

CONSTRUCTION

The Global Tracker housing is constructed of PVC and virtually impervious to seawater damage.



Its rugged construction endures the rigors of offshore work. The high performance electronics, transmitter/controller and antenna are mounted above the battery pack in a sealed area. Each unit is thoroughly tested before leaving the factory including operation through the Argos satellite system.

OPERATION

The Global Tracker is attached with clamps or user-specified method. The unit is activated by removing a magnet from the machined surface on the housing. The Global Tracker is programmed according to each user's specification and can progress through four sequential modes of operation. For example;

Mode 1 - transmit continuously for 30 days

Mode 2 - transmit 4 hours every 2 days for 60 days

Mode 3 - cease transmission for 30 days

Mode 4 - transmit once per day for 1 week

The unit can be reset at any time by simply replacing the magnet.

Technocean, Inc.
820 N.E. 24th Lane, Unit 112
Cape Coral, FL 33909

Phone: 941-772-9067
FAX: 941-574-5613
email: hwhite@technocean.com
website: www.technocean.com



Global Tracker PTT

Ocean -ready Argos PTT

BATTERY REPLACEMENT

The battery can be replaced when voltage approaches a value insufficient to supply the next deployment period. New battery packs are capable of approximately one year of continuous transmission (24 hours/day with a 90 second repetition period); however, results may vary depending on environmental conditions. Battery life can be extended by duty-cycling transmissions. Storing the batteries in excessive heat will diminish lifetime. Technocean will gladly advise you on optimizing battery lifetime in your application.

To change the battery pack:

1. Place the unit parallel to the working surface and unscrew and remove the plug on the bottom of the unit using only the protruding square fitting.
2. Remove the round sponge plug from the bottom by pulling on the exposed lanyard, the used battery pack can now be gently extracted by tilting the hull.
3. Carefully separate the plug to disconnect the battery from the harness wires. This plug makes a very tight mechanical fit and the two halves should be worked by hand until they separate.
4. Connect the new battery to the harness plug and make sure that the unit starts transmitting. If the transmitter does not function within 2 minutes disconnect and reconnect the battery. Occasionally when the power is removed from the unit the operating software may need to be restarted by making and breaking the power connection. Once the unit transmits replace the new battery in exactly the same way as the old one was removed.
5. Replace the round foam plug with the lanyard end protruding so the same process can be repeated when the next battery replacement occurs. Make sure the lanyard cannot foul the thread plugs.
6. After cleaning the internal and external threads of the bottom fitting, apply a coat of Teflon impregnated pipe sealant to the plug threads and replace the plug to make a firm fit. Make certain that the pipe plug is not over tightened, usually 1.4 to 2.0 kg-meters (10-15 ft. lbs) or 1.5 to 2 turns past a hand tight fit will be enough torque.
7. The unit should again be checked after the battery exchange to ensure that it is operating correctly.

SPECIFICATIONS

Physical Dimensions: 38" long by 4" diameter
Operating Voltage: 7V to 13V
Operating Temperature: -20°C to +85°C
Current Consumption: nominal 2 mA (@ 25°C, 90 sec. rep rate, continuous operation) - varies depending on repetition rate and duty cycle
RF Power Output: 1 W (nominal) into 50 Ohms
Interface Connectors:
Sensors and Power: DB25F
Antenna: BNC 50 Ohms

Internal Sensors:

Battery Voltage

Sensor Input/Output:

Standard.: Magnetic Reed Switch

Optional: Temperature

4 TTL inputs/outputs

Antenna: Unique internal antenna tuned specifically to work with the PVC housing.