

This quick start initial installation manual is developed by Novega Produktionssysteme GmbH. Upon non-compliance with the data content, the operating licence will be retracted and there will be no acceptance of any guarantee for the device. Rev.1.4 of 22-March-2011

The PT9 C-PROOF Underwater Locating Device (ULD) is battery-powered. The ULD is activated by immersion into fresh- or salt-water. The activation effects the emission of a defined ultrasonic signal.

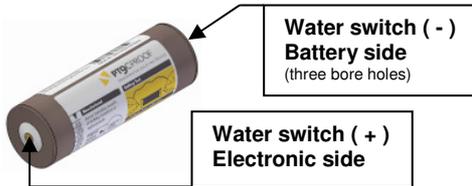


Figure 1: Position of the water sensitive ULD switch

Advice: The PT9 C-PROOF must not be disassembled, crushed, penetrated, incinerated or exposed to temperatures above 75°C (167°F). Performance Testing and Replacement of the battery is to be done by a qualified technician only!

Cleaning and Battery test

Initially, ensure that both of the water switch pins are clean and dry before beginning the test. Clean the parts with a mild detergent and a soft cloth. Clean water switch pins allow the moisture to collect into droplets and so run off the switch. Although the beacon is equipped with a protection against unintentional activation, both of the pins are to be kept clean and impurities are to be removed.

Advice: After its installation into the beacon retainer bracket of the VDR or S-VDR Data Capsule, the PT9 C-PROOF is to be tested, and, at least once a year, to be cleaned and tested by a service technician. For a complete service or an annual performance test (APT), read the PT9 Initiation and Maintenance Manual to its full extent.

Starting the service operation mode (Activation)

Use a wire jumper and connect both of the water switch pins for approx. 3 seconds to the left and the right of the beacon, which puts the PT9 C-PROOF into the service operation mode.



1. Activate 3 sec. with wire

**Figure 2:
Start the service
operation mode**

The PT9 C-PROOF is now in the service operation mode for 60 seconds. At this point the battery voltage is circulated to the water switch pins and can be measured with a multimeter. After expiration of 60 seconds, the PT9 C-PROOF drops back into the sleep mode. For battery voltage measurement, use a high impedance multimeter (impedance 10 Megohms). For voltage measurement, adjust the multimeter to a range of 20 V DC (direct current). During the 60 seconds, press both of the multimeter test prods on the beacon water switch pins to the left and right and read off the battery voltage. The dispensed acoustic pulses can be controlled by using the TAG 2550 (350-17610).



**Figure 3:
Battery voltage
measurement**

2. Measure within 60 sec.

The indication of the multimeter might balance in the decimal range. This is normal and shows that the ULD is pulsing the ultrasonic signal. The minimum read-out voltage value must not fall below 2,5 V. If this minimum value is undercut, the battery is to be replaced. Strictly, the battery must be replaced within 3 years after the original battery has been inserted. 6 years after the initial operation, the ULD has to be rejected and sent back to Novega Produktionssysteme GmbH.

Use only the original replacement battery No. 350-17350. The licence expires and the device can be damaged if batteries, other than the original replacement battery, are used.

Advice: The battery kit (350-17358) includes the battery and an O-Ring for the cover.

Corrosion safety measures when mounting

Before you install the PT9 C-PROOF, ensure that the contact surfaces of the beacon holder are free of impurities and rust. The beacon holder must not have any blank or sharp-edged areas, as these could damage the surface coating of the PT9 C-Proof and thus cause corrosions. If applicable, repair the affected spots by abrasion and varnishing.

If the surface coating is scratched or damaged

If there are visible damages on the surface coating, they must be repaired immediately.



**Figure 4:
Damage on the
surface**

These small damages can be repaired with a protective coating. For this, we recommend a "Single-coat lacquer". Apply this after having degreased the surface at and around the damaged area with an adequate detergent.

In case of doubt, or, if the PT9 C-Proof should show major damages, please contact us.

Advice: Please see the varnish producer's manual, concerning specified information: e.g. the curing time.

When the expiry date is reached, the battery should be disposed, and in accordance with all local, state and federal regulations.

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