

This quick start initial installation manual has been developed by Novega Produktionssysteme GmbH. Novega reserves the right not to be held responsible for the topicality, correctness, completeness or quality of the information provided. Liability claims regarding damage caused by the use of any information provided, including any kind of information which is incomplete or incorrect, will therefore be rejected. Rev.04 of October 2014

The **PT9 NINETY 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.

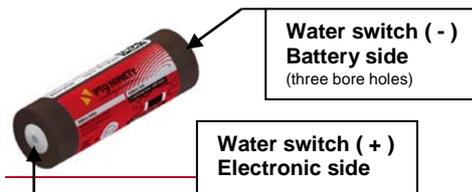


Figure 1: Position of the water sensitive ULD switch

The PT9 NINETY must not be disassembled, crushed, penetrated, incinerated or exposed to temperatures above 75°C (167°F).

Advice: After its installation into the beacon retainer bracket of the VDR or S-VDR Data Capsule and at least once a year, the PT9 NINETY shall be tested by a qualified service technician. Performance testing and replacement of the battery should be done by a qualified technician only. For a complete service or an annual performance test (APT), read the [PT9 Manual for Initiation and Maintenance](#) to its full extent.

Cleaning

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 need to be kept clean and impurities need to be removed.

Activation and Battery test

To start the service operation mode 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. This puts the PT9 NINETY into the service operation mode for 60 seconds.



Figure 2:
Start the service
operation mode

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 NINETY 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 (No. 17610).



Figure 3:
Battery
voltage
measurement

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 3.2 V. If this minimum value is undercut, the battery must be replaced. Strictly, the battery must be replaced within 3 years after the original battery has been inserted (vide type label). Replace the PT9 NINETY 6 years after the first installation.

Strictly use only the original replacement battery (No. 18725). The licence will expire and the device will not work and also could become damaged if a battery, other than the original replacement battery, is used.

Corrosion safety measures when mounting

Before installation of the PT9 NINETY, 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 NINETY and thus cause corrosions.

Scratched or damaged surface coating

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 the Novega Coating Repair Kit (No. 20543).

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

Advice: Please note that differences of the housing and the cover in terms of colour are coating specific and do not demonstrate damage.

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