



Series 100 Water Detector

STANDARD FEATURES

- To detect water beneath all fuel oils in storage tanks
 - Fully portable
 - ATEX approved
 - Complete with 16m cable
 - Easy to replace cable and sensor with plug/socket
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- **Essential** for avoiding shutdowns due to water in fuel systems
 - **Essential** for effective maintenance procedures on standby generators and emergency services
 - **Essential** for detecting water during deliveries
 - **Essential** wherever water in fuel creates a problem



Series 100, Water Detector

The Series 100 Electronic Water Detector has been designed to detect and measure the depth of water accumulating beneath Furnace Fuel Oil and Diesel in storage tanks and other containers.

Operating on the conductivity principle, the control unit box contains the battery, the electronic circuit and sounder. The probe and its cable are connected to the box via a connector located on the uppermost surface of the box.

A power switch is not required as no current is drawn from the battery when probe is clear of a conductive fluid. There are no hazardous voltages at the probe and current is limited to safe levels.

In use, the cable is unwound from the box handle and the probe lowered into the tank or container. Should the probe come into contact with water, a clear audible tone will be emitted from the sounder. If the probe is allowed to rest on the bottom of the tank, and then slowly raised until the alarm ceases, an indication of the depth of water below the fuel may be gauged by the amount of cable withdrawn from the tank.

Periodically, and particularly when water is not detected where it might be expected, the functionality of the unit should be confirmed by dipping the probe into a cup of tapwater and checking that the sounder operates. When not in use the cable is wound around the shaped handle and the probe placed in the chamber on the side of the unit.

INSTRUCTIONS FOR USE

The product is supplied with the battery fitted. Immediately after unpacking, please check that there is no visual damage to any parts of the instrument and that all screws appear tight. Functionality can be confirmed by dipping the probe into a cup of tapwater and checking that the sounder operates. The unit is then ready for immediate use.

Note: If the unit has been stored for a very long time then it is possible that the battery may have self-discharged. It will then be necessary to replace the battery before repeating the functionality test above. Refer to 'MAINTENANCE' for battery replacement procedure.

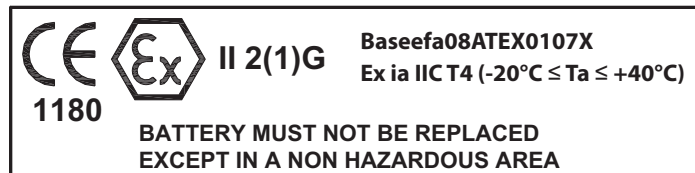
MAINTENANCE

Note: Maintenance should only be carried out in a safe area

For continued efficient performance, the instrument should be maintained in a clean and dry condition. When the performance of the sounder has clearly deteriorated, then it is likely that the battery is due for replacement, in which case remove the lid from the box by undoing the four torx screws. Carefully remove the old battery from its holder. The associated circuit card may be gripped whilst doing this. Insert the replacement battery into the battery holder, ensuring correct polarity. The circuit card may once again be gripped whilst doing this to provide support. Replace the lid and firmly tighten the torx screws.

Should the probe or its cable become damaged, a replacement may be obtained from Ashridge Engineering Ltd. The old cable can simply be unplugged from the box and the replacement fitted in its place. Faults within the control box will require the instrument to be returned to Ashridge Engineering Ltd. for repair.

CERTIFICATION DETAILS



Special conditions of use: The control box is limited to Cat 2 (Zone 1) use, but the probe is permitted to be used within Cat 1 (Zone 0).

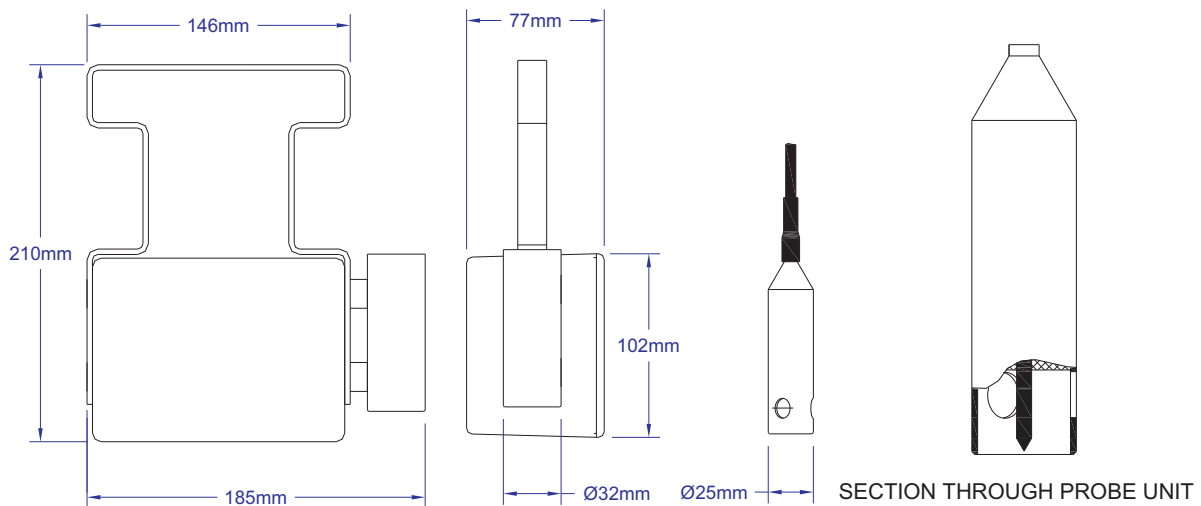
SPECIFICATION

Power source: Duracell MN1604, 6LR61 (PP3) or approved equivalent **Cable:** 2 core polyurethane, standard length 16m with attached plug

Operating temperature: -25C to + 40C (note: +70C permissible in safe area) **Weight:** Approximately 1.8kg

EMC: Emissions to EN55011, ElectroStatic Discharge to EN61000-4-2 (1995), Immunity to EN61000-4-3 (1995)

Ashridge Engineering Ltd. reserves the right to change specifications without notice



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