

2 Specification

Maximum Working Voltage	1100V DC
Threshold Voltage	200V AC / 300V DC
Operating Current	<10mA DC at Max Working Voltage
Indicator	High Intensity LED with Polarising Filter
Handle Length	153mm
Overall Length	195mm
Handle Diameter	20mm
Probe Tip Length	38mm
Hand Guard Height	27mm Over Full Circumference
Distance from Uninsulated Probe Tip to Handguard	138mm
Uninsulated Contact Electrode Length	5mm
Contact Electrode Diameter	3mm
Lead Length between Probes	1.7m Double Insulated Cable
Construction	High Impact, Total Encapsulation
Compliance	BS EN 61243-3:1999 Voltage Class B

LLT Live Line Tester

Operating Instructions

3 Maintenance

Clean only with a dry cloth; do not use solvents.
Before use, ensure unit is clean and dry; visually inspect test terminals and case. Any damage must be rectified to preserve user safety.

4 Service and Calibration

To maintain the specified performance, the instrument must be verified at regular intervals by either the manufacturer or an authorised Seaward Service Agent. We recommend a calibration period of one year.

For help or advice on Service and Calibration contact:

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Limited Warranty & Limitation of Liability

SEAWARD Electronic Limited Guarantees this product to be free from defects in material and workmanship under normal use and service for a period of 1 year. The period of warranty will be effective at the day of delivery.

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Due to a policy of continuous development SEAWARD Electronic Limited reserves the right to alter the equipment specification and description outlined in this publication without prior notice and no part of this publication shall be deemed to be part of any contract for the equipment unless specifically referred to as an inclusion within such contract.

DECLARATION OF CONFORMITY

As the manufacturer of the apparatus listed, declare under our sole responsibility that the product:

LLT Live Line Tester

To which this declaration relates are in conformity with the relevant clauses of the following standard:

**BS EN 61243-3:1999 Voltage Class B
Two pole**

**BS EN 61326:1998
Electrical equipment for measurement, control and laboratory user-EMC Requirements**

Performance: The instrument operates within specification when used under the conditions in the above standards EMC and Safety Standards.

The product identified above conforms to the requirements of Council Directive 89/336/EEC and 73/23 EEC.

Seaward Electronic Ltd. is registered under BS EN ISO9001:2000 Certificate No: Q05356.

1 Important Information

These operating instructions are intended for the use of adequately trained personnel.

Before use, ensure that the Live Line Tester is clean and dry; visually inspect all parts. Any damage must be rectified prior to use.

Never hold a Live Line Tester between the handguard and the contact electrode.

Always prove the Live Line Tester before AND after use.

- 1 Holding the Live Line Tester by the handles, above the handguards, connect the instrument to a Seaward PH3-LLT proving unit and verify that the LED indicators are illuminated.**
- 2 Holding the Live Line Tester by the handle, above the handguards, place the contact electrodes in contact with the circuit under test.**
- 3 If the LED indicators are illuminated there is a voltage greater than the threshold voltage present at the probe tips.**
- 4 If the LED indicators do not illuminate any voltage present at the probe tips is less than the threshold voltage.**
- 5 Repeat step 1 above to verify that the instrument is still operational.**

PH3-LLT Proving Unit

Operating Instructions



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DECLARATION OF CONFORMITY

As the manufacturer of the apparatus listed, declare under our sole responsibility that the product:

PH3-LLT

To which this declaration relates are in conformity with the relevant clauses of the following standard:

BS EN 61010-1:2010


Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements.

BS EN 61326:2013

Electrical equipment for measurement, control and laboratory use-EMC Requirements

Performance: The instrument operates within specification when used under the conditions in the above standards EMC and Safety Standards.

The product identified above conforms to the requirements of Council Directive 2006/95/EC and 2004/108/EC.

This Conformity is indicated by the symbol , i.e. “Conformité Européenne”

Seaward Electronic Ltd is registered under BS EN ISO9001:2000 Certificate No: Q05356.

1 Important Information

These operating instructions are intended for the use of adequately trained personnel.

Before use, ensure that both the proving unit and the live line tester are clean and dry; visually inspect all parts. Any damage must be rectified prior to use.



Never hold a Live Line Tester between the handguard and the contact electrode.



**Electric shock risk!
Do not touch terminals!**



Always prove the Live Line Tester before AND after use.



Always check that the neon indicator on the proving unit is illuminated whilst testing.

Use only accessories provided by the manufacturer.

Do not energise the proving unit for longer than 5s in order to preserve the battery.



If the equipment is not used in a manner specified in the manual, the protection provided may be impaired.

Disposal of Old Product



This product has been designed and manufactured with high quality materials and components that can be recycled and reused.

When this symbol is attached to a product it means the product is covered by the European Directive 2012/19/EC.

Please familiarise yourself with the appropriate local separate collection system for electrical and electronic products.

Please dispose of this product according to local regulations. Do not dispose of this product along with normal waste material. The correct disposal of this product will help prevent potential negative consequences for the environment and human health.

2 Environmental Conditions

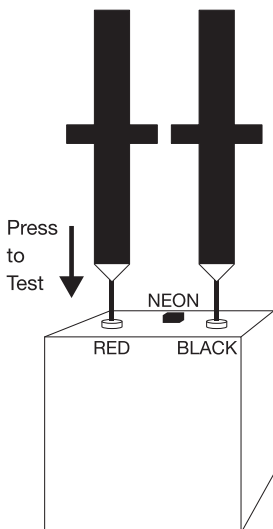
The PH3-LLT has been designed to perform tests:

- a) In a dry environment.
- b) At a altitude of up to 2000m.
- c) At temperature of 5° - 40°C without moisture condensation.

3 Proving

The PH3-LLT is intended to check if a Live Line Tester functions correctly.

- Connect one probe to the BLACK terminal.
- Connect the other probe to the RED terminal.
- Press the probe down onto the RED terminal as shown below to operate the internal micro-switch.
- Confirm that the neon illuminates indicating the test voltage is active.
- Confirm that the LED indicators in the Live Line Tester illuminate.
- Disconnect both probes from the proving unit.



4 Specification

Output Voltage	500V DC nominal
Output Current	6.5mA DC into 120k Ω 0.15mA DC into 2k Ω
Indicator	Neon indication of voltage active
Dimensions	110mm (h), 85mm (w), 60mm (d)
Power Supply	9Vdc, PP3 Alkaline battery
Compliance	BS EN 61010:2010
Degree of Protection	IP40

5 Maintenance

Clean only with a dry cloth; do not use solvents. Before use, ensure unit is clean and dry; visually inspect test terminals and case. Any damage must be rectified to preserve user safety.

Check the battery contacts and compartment are free of electrolytic contamination. Any contamination of the battery contacts or compartment should be cleaned with a dry cloth.

Always confirm the LED indicator on the proving unit illuminates when the test is activated. Should the item become faulty, return it to the manufacturer or an **authorised Seaward Service Agent**.

6 Battery Replacement

- Disconnect all test leads.
- Place the PH3-LLT face down and remove the battery compartment cover.
- Remove the discharged battery.
- Insert the replacement battery into the battery compartment ensuring that the battery polarity matches the battery connector.
- Replace the battery compartment cover.

7 Service and Calibration

To maintain the specified performance, the instrument must be verified at regular intervals by either the manufacturer or an **authorised Seaward Service Agent**. We recommend a calibration period of one year.

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