Supply Voltage	Lamp 1	Lamp 2	Wiring Status
240V 50/60 Hz	ON	OFF	CORRECT
	OFF	ON	Phase / Neutral / Reversed
110V 50/60 Hz	OFF	OFF	Phase open circuit
	ON	ON	Phase / Neutral short
110V 50/60 Hz	ON	ON	CORRECT
CENTRE TAPPED	OFF	ON	Conductor open circuit
	ON	OFF	Conductor open circuit
	OFF	OFF	Supply open circuit

SPECIFICATION

Operating Voltage (DV models)	110V ±10% & 230V ±10% 50/60Hz
Operating Voltage (240 models)	230V ±10% 50/60Hz
Power Consumption	<0.15W
Installation (IEC1010)	Category II 300V Pollution degree 2
Operating	0 to 35°C at max. 60% RH
Storage	-10 to 50°C
Leads	240V BS1363 with 3 Amp fuse to IEC line socket 110V BS4343 to IEC line socket (DV models only).
Size	141 x 82 x 51mm
Material	ABS.

This instrument has been designed to be used in a clean dry environment. Do not use outdoors in wet conditions.

MAINTENANCE

There are no user serviceable parts in this universal extension lead tester. Return to Martindale Electric if faulty.

CLEANING

Do not use volatile liquids such as thinner or benzine to clean the tester. Wipe with a soft, dry cloth or moisten cloth with a neutral non abrasive detergent and wring the cloth out thoroughly before wiping over the surface. Ensure that all traces of moisture have evaporated before using the tester.

STORAGE CONDITIONS

The unit should be kept in warm dry conditions away from direct sources of heat and in such a manner as to preserve the working life of the unit.

MARTINDALE ELECTRIC

CE

129 St. Albans Road, Watford, WD1 1RA. Tel: 01923 441717 Fax: 01923 446900.
Website: www.martindale-electric.co.uk E-mail: support@martindale-electric.co.uk

Due to policy of continuous development, Martindale reserves the right to alter equipment specification and description outlined in this document without prior notice. No part of this document shall be deemed to be part of any contract for the equipment unless specifically referred to as an inclusion within such contract.

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MARTINDALE ELECTRIC

LT SERIES

Universal Extension Lead Tester

INSTRUCTION MANUAL

SAFETY RULES

CAUTION

Use extreme care when you work around electrical circuits. A severe shock hazard exists. Your universal extension lead tester is not intended to replace good electrical practices.

WARNING

In order to avoid the danger of electrical shock, it is important that proper safety measures are taken when working with voltages exceeding 30V AC rms, 42V peak or 60V DC.

Always check that the universal extension lead tester is operating correctly before proceeding.

These instructions contain both information and warnings that are necessary for the safe operation and maintenance of the unit. It is recommended that you read the instructions carefully and ensure that the contents are fully understood. Failure to understand this leaflet and to comply with the warnings and instructions contained herein can result in serious injury or damage.

The unit must only be used under the conditions and for the purposes for which it has been constructed. Particular attention should be paid to the safety instructions, the technical specifications and the use of the unit in dry surroundings.

SAFETY CHECK

Double check the lead connections before making a test.
Are you following all the instructions?
Do not use leads that are damaged and in need of repair.

N.B. THIS INSTRUMENT SHOULD ONLY BE USED BY A COMPETENT, SUITABLY TRAINED PERSON.

TEST EARTH STUD



SAFETY SYMBOLS

Refer to instruction manual symbol. The tester is marked with this symbol when it is necessary for the user to refer to the instruction leaflet to protect against a hazard or damage to the tester.

The tester is marked with this symbol to indicate that the stud located by this symbol is connected to earth. (Wander earth connection point).

GENERAL DESCRIPTION

The series consists of two models to suit various types of portable appliance tester. Ensure you are using the correct type for your PAT. If your PAT is not listed below, please telephone Martindale on 01923 441717 for advice.

LTDV (240/110V) is suitable for use with:
PAC1500xi, PAT1900xi, PAT2100xi, PAT500H, MPAT40, MPAT60, Megger PAT4, Robin PATs and all Edgcumbe (Metrohm) PATs.

LTDVR (240/110V) is suitable for use with:
Seaward PAT2000iee, PAT2000, PAT1000s, IT1000, PAT1000x, Supernova, Europa, Europa PAC and Megger PATs (excluding PAT4 & 32).

LT240 (240V) is suitable for use with:
PAC1500xi, PAT1900xi, PAT2100xi,PAT500H, MPAT40, MPAT60, Megger PAT4, Robin PATs and all Metrohm (Edgcumbe PATs).

LT240R (240V) is suitable for use with:
Seaward PAT2000iee, PAT2000, PAT1000s, IT1000, Supernova, Europa, Europa PAC and Megger PATs (excluding PAT4 & 32).

All models can be used to check the continuity/bond of the safety earth and check the polarity of phase and neutral conductors. All models can be used to check conventional extension leads and IEC type detachable leads as found on IT equipment and domestic appliances.

OPERATING INSTRUCTIONS

Select the appropriate power lead for the extension lead to be tested. Plug the extension lead into the appropriate test socket on the PAT and plug the LT into the other end of the extension lead to be tested. Carefully connect the PAT wander earth clip on to the test earth stud, identified by the ⏚ symbol on the LT.

Perform Class 1 tests on the extension lead to establish that the earth continuity and insulation resistances are within the required limits. As a guide typical wire resistance values are given in a table on the face of the LT.

If the earth and insulation tests have been successfully passed, perform a run/load test and check the lamp illumination on the LT against the table given overleaf (or on the face of the LT).

If your PAT does not carry out a run test, you can carry out this test by plugging the extension lead into a power source with the LT connected to the lead under test for no more than 10 seconds.

IEC mains leads can be tested by substituting the lead to be tested for the LT power lead. The lead is then plugged into the PAT and the tests performed as with the extension lead.

IF THERE IS A CONTINUITY FAIL, A RUN TEST MAY BE HAZARDOUS AND THE RESULTS MAY NOT BE VALID.

DO NOT PERFORM A FLASH TEST WITH THE LT FITTED.