



DL1090 Socket Tester



EN
61010-1

CAT II
230V

Socket Tester - with Audible Buzzer

Instruction Manual v1.1



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DL1090 Operating Manual

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The safety and performance of this instrument is assured when operated within the specifications in this instruction manual.

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Certificate of conformity

As the manufacturer of the instrument listed below, we declare under our sole responsibility that the product:

Di-LOG DL1090

to which this declaration relates is in conformity with the relevant clauses of the following standards:

EN 61326
EN 61010-1:2010
EN IEC 61010-2-032
EN IEC 61010-2-033
RoHS & REACH



EMC- EU council directive 2014/35/EU & UK requirements of council directive Electromagnetic Compatibility Regulations 2016

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I. Overview

The DL1090 Socket Tester is designed to verify the wiring condition of mains sockets and check for potential hazards. It provides clear LED indicators and an audible buzzer for quick identification of wiring faults.



Constructed in accordance with IEC 61010-1 with a CAT II 230V Safety Rating.

II. Safety Notices

This instruction manual contains information that must be followed for operating the tester safely and maintaining the tester in a safe operating condition. If this tester is not used in the manner that is specified, the protection provided may be impaired.

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Warning! Warns of potential danger, refer to the instruction manual to avoid personal injury or damage to the tester.



Caution! Dangerous voltage. Danger of electrical shock.



Optimal operation is only guaranteed within a temperature range of 5 - 40°C, with an operating relative humidity of <80% RH.



Do not attempt to repair this product. If the product becomes damaged, please contact your place of purchase or contact Di-LOG directly.



Please dispose of the obsolete instrument in accordance with the local laws and regulations.

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III. Instrument & Manual Symbols

Symbols displayed on the instrument and in the instruction manual:

 Warning! Warns of potential danger, and to comply with the instruction manual.

 Caution! Dangerous voltage, potential risk of electrical shock.

 CE Symbol of conformity confirms conformity with relevant EU directives. The scanner complies with EMC directives (2014/35/EU)

 UKCA Symbol of conformity confirms conformity with relevant UK directives. The scanner complies with EMC directives (Electromagnetic Compatibility Regulations 2016)

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The DL1090 meets the standard (2012/19/EU) WEEE. This marking indicates that this product should not be disposed of with other household waste throughout the EC.

The instruction manual contains information and references, necessary for safe operation and maintenance of the instrument. Prior to using the instrument, the user is kindly requested to thoroughly read the instruction manual and comply with it in all sections.

Failure to read the instruction manual or to follow the warnings and references contained herein can result in serious bodily injury or instrument damage. The respective accident prevention regulations established by the professional associations are to be strictly enforced at all times.

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IV. DL1090 Specification

Operating Voltage	230V AC 50Hz +/- 10%
Polarity Indication	LED & Audio
Op Temperature	5-40°C
Op Humidity	0-80%RH
Storage Temp	0-50°C

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V.



1	LED indicators
2	LED Indicator Guide

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1. Polarity Testing

To perform a polarity test:

- Plug the unit into a UK mains socket.
- If the wiring is correct, two green LEDs will illuminate, and a continuous buzzer will sound. This is the only correct configuration.
- If the wiring is incorrect, one LED will turn red, and the buzzer will pulse.
- Refer to the status combination chart for details on fault indicators.(Section 2)



The unit is only intended for short-term use (less than 5 minutes) and should not be left plugged in continuously.

Do not obstruct ventilation slots.

The unit must be used in a vertical orientation only.

To verify proper functionality, test the unit on a known good socket before use.


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2. Polarity Status Combination Chart

"x" indicates disconnected conductor

Plug Pins	Status	LED 1	LED 2	LED 3	Audible
N E L	Correct	Green	Green	Off	Continuous
E N L	E-N Reverse	Green	Green	Off	Continuous
x E L	Missing N	Off	Green	Off	Pulse
x L E	Missing N	Off	Green	Off	Pulse
x N L	Missing N	Off	Green	Off	Pulse
x L N	Missing N	Off	Green	Off	Pulse

DL1090 cannot detect
N-PE reverse

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2. Polarity Status Combination Chart (continued)

"x" indicates disconnected conductor

Plug Pins	Status	LED 1	LED 2	LED 3	Audible
N x L	Missing Earth	Green	Off	Off	Pulse
L x N	Missing Earth	Green	Off	Off	Pulse
E x L	Missing Earth	Green	Off	Off	Pulse
L x E	Missing Earth	Green	Off	Off	Pulse
E L x	L Fault	Green	Green	Red	Pulse
L E x	L Fault	Green	Green	Red	Pulse

DL1090 cannot detect
N-PE reverse

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2. Polarity Status Combination Chart (continued)

"x" indicates disconnected conductor

Plug Pins	Status	LED 1	LED 2	LED 3	Audible
N L x	L Fault	Green	Green	Red	Pulse
L N x	L Fault	Green	Green	Red	Pulse
N L E	L-PE Reverse	Off	Green	Red	Pulse
E L N	L-PE Reverse	Off	Green	Red	Pulse
L E N	L-PE Reverse	Green	Off	Red	Pulse
L N E	L-PE Reverse	Green	Off	Red	Pulse

DL1090 cannot detect
N-PE reverse

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3. Maintenance

It is important to avoid exposing the product to extreme temperatures, whether hot or cold. Additionally, the product must not be subjected to external force or vibration for extended periods of time. When not in use, the product should be stored indoors and placed in its box to prevent damage.

To clean the product, use a soft cloth that has been dipped in clean water and then squeezed dry. Do not use any corrosive or volatile substances.

For safe storage and transportation, please use the protective case that comes with the product.

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4. 24 Month Warranty

Di-LOG instruments are subject to stringent quality controls. If in the course of normal daily use a fault occurs we provide a 24 month warranty (only valid with proof of purchase). Faults in manufacture and material defects will be rectified by us free of charge, provided the instrument has not been tampered with and returned to us unopened. Damage due to dropping, abuse or misuse are not covered by the warranty.

Product Support
support@dilog.co.uk

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