

SOCKET & SEE™

PDL PRO High Resolution Loop Tester



- No trip loop - L-E test
- High current L-E loop test
- High current, high resolution L-E loop test
- High current, high resolution L-N loop test
- AC voltage VLN - VLE - VNE
- Distribution Network Operator (DNO) polarity test pad
- New loop anti trip technology for full no trip loop testing of RCD
- Simultaneously displays PFC / PSC measurements
- Polarity, voltage present LED
- Handsfree operation
- Measurement category CAT III 500V (CAT IV 300V)

Description

The PDL PRO is a no trip and high current, high resolution digital earth loop impedance tester.

The Socket & See PDL PRO also features a large backlit display that illuminates when the tester is switched on as well as during testing, making testing easy in poorly lit areas. The unit will automatically power off after approximately 3 mins of inactivity and features a secure protective rubber boot to protect the unit against every day bumps and scrapes. For additional protection, the PDL PRO is also fully protected against accidental phase to phase connection.

The PDL PRO also uses true impedance technique for accurate measurement of Prospective Fault Current (PFC) and also calculates Prospective Short Circuit (PSC) in the event of a short circuit between the live conductors.

Loop No Trip L-E

This is a 3 wire test to measure Z_s where the circuit is protected by a RCD. Where possible, non-essential electrical equipment should be disconnected to reduce the chance of the RCD tripping as a result of leakage build up.

Loop High Current L-E

The High current test is used to measure Z_e at the distribution board downstream of any RCD or Z_s , where the circuit is not protected by an RCD.

High Resolution L-E / L-N

The High current tests are used to measure Z_e or Z_s , where the circuit is not protected by an RCD. Results will be displayed to 1 M Ω resolution.

Hands Free

The hands free function can be used with any loop measurement. Select the loop measurement required with the rotary dial. Pressed the HANDS FREE button and HANDSFREE will be displayed on the screen. Once the tester is connected, correct voltage and polarity is confirmed and loop test will be conducted without TEST being pressed.

Volts L-N / L-E / N-E

Voltage L-N is the tester's default setting. By pressing VOLTS LN-LE-NE the voltage displayed will be toggled. the voltage displayed can be toggled before or after the loop test is carried out.

PFC / PSC

After a loop test has been carried out the calculated PFC and PSC can be displayed by selecting PFC L-E / PSC L-N.

Polarity Test Pad

Touch the touch pad area next to the test button. There should be no change in the indication given. If the Voltage / Polarity LED flashes RED and a warning tone emitted when the touch pad is touched, a potentially dangerous polarity reversal exists.

The Socket & See PDL PRO is fully BS EN 61010 and BS EN 61557 certified.

EMC compliance - BS EN 61326.

SPECIFICATION

Voltage

Test Range 0 to 260V
Accuracy $\pm(3\% + 3 \text{ digits})$

No Trip L-E Loop Test (No trip L-E mode, 3 wire testing)

Test range inc. Tolerance
0.00 to 99.99 Ω $\pm(5\% + 5 \text{ digits})$
100.0 to 499.9 Ω $\pm(3\% + 3 \text{ digits})$

High I L-E Loop Test (High I L-E mode, 3 wire testing)

Test range inc. Tolerance
0.000 to 9.999 Ω $\pm(3\% + 30 \text{ M}\Omega)$
10.00 to 99.99 Ω $\pm(3\% + 3 \text{ digits})$
100.0 to 500.0 Ω $\pm(3\% + 3 \text{ digits})$

Power Supply 4 x AA LR6 Batteries

Battery Life 50 Hours

Overvoltage Category CAT III 500V
CAT IV 300V

Operating Temperature 0 - 40°C

Storage Temperature -10 to 60°C

Operating Humidity 80% @ 31°C to 50% @ 40°C

Safety Compliance BSEN 61010-2-030:2010

EMC Compliance BSEN 61326-2-2:2013

Performance Standard BSEN 61557-1:2007
BSEN 61557-3:2007

Probes GS38 Compliant

Dimensions 180mm x 85mm x 50mm

Weight Approx. 450g

What's included...

Socket & See PDL PRO
Lead Set
Instruction Manual
Magnetic Hanging Strap
Carry Case
Batteries

Order code: SOC/PDLPRO