Electrical Safety Testing & Tagging made easy

SAFE*T*CHECK

The continual evolution of the SAFETCHECK ensures the latest technology provides the user with features unique amongst Portable Appliance Testers - Two models to choose from: Pro Logger II & Nanto

Pro Logger II

Separate Run Test Socket*
Provides three extra levels of operator safety

RCD/Ext. Lead Test*
Combines an Extension Lead and RCD test in one

Other Appliance Menu
Provides test parameters for many appliances that can't normally be tested

Mains Check
Ensures a safe correctly wired mains supply

Dual Test Plugs*
No extra adaptors required (Pro Logger II only)

Data Logging
Fully integrated Data Logger provided with PC Interface Software at no extra cost (Scanner & Keyboard are Options)

checkCONNECT*
This unique feature ensures a correct connection every time; where other testers may incorrectly pass appliances (Cloak is an option)

Nanto

* Unique to the SAFE*T*CHECK

Designed and manufactured in Australia

TRIO
Test & Measurement

SafeTcheck Portable Appliance Testers (PAT) have been designed and manufactured in Australia to test electrical appliances to ensure they comply with the requirements of the current Australian and New Zealand standard AS/NZS 3760 (In-service safety inspection and testing of electrical equipment).

Simple Operation

Connect an appliance, select the appliance type, start the test. The result is Pass/Fail and with the unique feature check**C⊘NNECT**, you can be sure that any Class II appliance is correctly connected to the PAT, resulting in a PASS or FAIL you can trust.

- All tests are completed in a few seconds.
- All electrical thresholds are preset for the selected appliance.
- All requirements of the standard are satisfied prior to passing an appliance.
- The safety of the operator and appliance is ensured at all times.

Additional benefits

- **SafeTchecks** are the only PAT testers to use a stainless steel cloak, incorporating the check**C⊘NNECT** feature, to ensure a thorough insulation resistance test and operator safety
- Conducts a leakage current test (run test) to measure an appliance's leakage current (if mains power is required to operate the appliance's On/Off switch). For safety, the **SafeTcheck** features 2 sockets.
- Data Logger stores up to 2000 records
- Stainless steel cloak for more thorough coverage of appliances
- High current 10/25A earth test (optional on the Pro Logger II only)
- RCD tester (tests the RCD as ext. lead during the same test; includes mains isolation)
- Rugged, water and dust proof case with accessory compartment
- An LCD display clearly indicates Pass/Fail and details of a fault
- Has pre-programmed test parameters for specific appliances (e.g. mineral insulated metal sheath heaters, EPODS, etc)
- Light weight (less than 4kg)
- Has several safety features to ensure operator safety from electric shock
- Records and displays measured values for insulation resistance, earth resistance, leakage current and trip times

Function and basic technical specification

SafeTchecks are designed to easily verify that an appliance meets or exceeds the electrical safety requirements as described in the current Australian and New Zealand Standard (AS/NZS 3760).

SafeTchecks test Electrical Continuity, Insulation Resistance and Earth Integrity (where appropriate) against predetermined test thresholds for a selected appliance.

All tests are conducted sequentially. If any test should fail, **SafeTchecks** will indicate a fail as well as suggesting the most likely cause via the display.

SafeTchecks are designed to be "Fail Safe" with unique check**C⊘NNECT** i.e. the tester will always indicate a failed test - if any aspect of the test is incorrect, with respect to the characteristics of the appliance under test.

Tests performed:

Mains Power Outlet Check

The mains power outlet supplying the **SafeTcheck** is checked for the existence of an Earth and Active-Neutral transposition

(Class I) Earthed Appliances

- Electrical continuity <=100K Ohms
- Earth continuity <= 1.0 Ohm (test current @ 200mA)
- Insulation resistance >=1M Ohm (test voltage 250/500VDC selectable)

Note: *If the appliance requires mains power to energise its On/Off switch, the SafeTcheck will perform a leakage current test (run test) to ensure leakage current is <=5mA*

(Class II) Double Insulated Appliances

- check**C⊘NNECT** *(unique to the SafeTcheck)* Ensures the conductive bandage is correctly in place to provide:
  – a return path for the leakage current during the insulation resistance and leakage tests (as specified in AS/NZS 3760)
  – ensures operator protection from electric shock
- ***Probe Test*** is available as an alternative to check**C⊘NNECT**
  – When using Probe Test a longer test time allows more points on the appliance to be tested for faults
- Electrical continuity <=100K Ohm

- Insulation resistance >=1M Ohm (test voltage 250/500V DC selectable)

Note: *If the appliance requires mains power to energise its On/Off switch, the SafeTcheck will perform a leakage current test (run test) to ensure leakage current is <=1mA*

Extension leads (2 wire included)

- Electrical continuity test for resistance Active-Neutral
- Earth continuity <= 1.0 Ohm (test current @ 200mA)
- Insulation resistance >=1M Ohm (test voltage 500V DC)
- Connection polarity Tests transposition of Active-Neutral

Run test (leakage current tests)

- Separate 15A Run Socket for user safety (no switched earth)
- 240V AC @ 15A for the duration of the test

RCD Tester

- 10mA & 30mA Portable & Fixed
- Provides mains isolation
- Performs lead test at the same time

Data logger

- Complete user control of Data Logging functions:
  - Logging can be switched on/off
  - Fields can be switched on/off
- Keyboard and Scanner interfaces
- Actual Time & Date stored with each test record
- Stores 500 or 2000 records
- Records are easily uploaded to a PC
- Records are always appended to memory (no records can be lost)
- Measured values are recorded
- Frequency of Test recorded with next test date calculated
- Data management software available to store results & print tags in real time

Display / Indicators

- LCD 128 x 64 pixels
  – Indicates Pass/Fail
  – Suggests possible fault conditions
  – Helpful user information
- LED's – Red (Fail/Reset) and Green (Start/Ready)
- Audible alarm

Power requirements

- Mains 240V +/-10% 50Hz
- Battery LiFePO$_4$ (Pro Logger II only)
- 4 x AA Ni-MH 1.2V (Nanto only)

Test Inlets

- Flush mounted test plugs (IEC & Austrlain 240V plugs – protected from accidental application of 240V mains)
- Dual Test Sockets with LED indicators - Separate run test socket for safety (helps protect the user from a failed switched earth or excessive leakage)

Operating instructions

SafeTchecks are intuitive to operate together with on screen prompts and clearly labeled switches. Step by step instructions are also outlined in the instruction manual provided.

Mechanical

The **Pro Logger II** Case

- Pelican Protector Case™
- Yellow (safety alert)
- Rugged, water tight & dust proof
- Stainless steel hinges
- Dimensions: 340mm x 295mm x 153mm
- Weight approx. 3kg

Front panel / key pad

- LEXAN insulated membrane
- Finish antiglare polyester
- Key operations > 1 million

Warranty

- 2 years (conditions apply)
- Lifetime warranty available

Included Accessories

- CD (Manuals, Drivers, etc)
- Mains power cord
- Return lead Clamp & Probe
- Calibration Certificate
- Keyboard (Pro Logger II only)
- STC Downloader software

Options

- High Current Earth Tester - 200mA continuity, 10A routine and 25A type tests (Pro Logger II only)
- 3 Phase appliance run test - 20A & 32A (Pro Logger II only)
- Battery Option (Pro Logger II only)
- Stainless steel cloak (large & small)
- Scanner and/or Keyboard
- Upgrade to 2000 stored records (Default 500)
- Data Management Software
- Tag printer for software above
- Battery Charger (Nanto only)
- IEC adaptors (Clover & Figure 8)
- Test tags
- Removable lid (Pro Logger II only)

Notes: TRIO reserves the right to change specifications at any time without notice. Tolerance on all stated values is ± 5%

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