

# PAT and Cable Test automation and reporting system



Building on ten years experience supplying multi-seat PAT and Cable test systems to major equipment hire companies, Out Board and longstanding software associates Data Strategy have launched an all-new version of their market leading electrical safety test and logging hardware and software.

The new PAT-4 Test Processors and powerful QC-Check software address evolving compliance standards with a focus on enhanced workflow efficiency and quality management, essential to busy and growing hire companies.

## PAT-4 Test Processor \* CAB-5 Cable Tester \* RCD-T Tester

The **PAT-4 Test Processor** has been re-conceived from the ground up and incorporates two 32-bit RISC ARM processors which allow tests to be configured to a wide range of emerging international test standards. The revamped QC-Check test automation and database logging software not only controls and records the tests but also provides an audit-trail for all aspects of warehouse safety inspection plus prep, pick, despatch and return logistics. PAT-4 is available in Single-Phase and 3-Phase versions at current ratings of 16A or 32A.

Combined PAT and Cable Test workstations can be created by adding one or more **CAB-5** cable test modules to perform electrical safety and continuity tests on cables from 5 up to 100 circuits. A further optional **RCD-T** module allows fully-isolated RCD tests with results recorded in QC-Check.

## QC-Check 4.0 Software

The **QC-Check** database carries full details of equipment preparation, quality management routines and electrical safety test parameters, allowing highly efficient PAT and cable test on the fly during prep or offline as part of a quarantine workflow procedure. Complex layered tests can be user-defined for special items such as IWB's and stage boxes, and sub-hired equipment can be temporarily tested and logged as Guest items.

Test results are updated in real-time at an individual asset level for each item, and detailed user-branded PAT Test manifests can be generated instantly to go out with the job. Non-electrical items can also be covered by their own preparation procedures and reports, including LOLER data forms for inspection of lifting devices.

PAT-4 and QC-Check communicate via USB or Ethernet, and the system readily networks into multi-seat, multi-site configurations including thin-client implementations.

The data and operations can be seamlessly integrated into third-party rental software, and Data Strategy has a wealth of experience working with most contemporary products as well as a number of proprietary environments.

# Key Features:



## PAT-4 Test Processor \* CAB-5 Tester \* RCD-T Testers

Integral ARM processors provide an adaptable, future-proofed platform to meet a wide range of statutory international test regimes

PAT-4 Test Processor is available in Single-Phase and 3-Phase versions at current ratings of 16A or 32A

Runs on any ac supply ranging from 85-250V, and all measuring elements are completely isolated from the ac supply

Performs very fast precision measurement ( $\pm 2\%$ ) of resistance, current and voltages so tests routines are quick. Data is sampled 3000 times per second and averaged over 1/10th of a second

Standard interface is USB with optional Ethernet for multiple units in a thin client environment

Add-ons include **CAB-5** cable test and **RCD-T** test modules which can be accommodated on the same workstation

Built-in IEC cable tester checks continuity, phase polarity and core insulation

## QC-Check 4.0 software

Network software utilising an SQL backend to facilitate multiple live PAT and Cable workstations

Records full history of test measurements and PASS/FAIL status. User-configurable report writer which outputs to printer, email or pdf, including job-specific PAT test manifests on despatch and Exceptions lists when the job returns

Multi-layered logins allow tailoring of test instructions and quality management routines to different skill levels

Proven integration track record with various contemporary and proprietary rental management software systems

## Compliance standards

The PAT-4, CAB-5 and RCD-T testers comply with the following standards and recommendations:

BS EN 62638 (Draft) / IEC 62638 (Draft) - Recurrent test and test after repair and modification of electrical equipment. This is the forthcoming BSI standard for PAT testing

DIN VDE 0701-0702: 2008 - Testing for electrical safety of electrical devices after repair modification and for periodic testing. The current German standard for PAT testing

AS/NZ 3760:2010 (Draft) - In-service safety inspection and testing of electrical equipment. Australian/New Zealand standard for PAT testing

HSE publication 'Maintaining portable and transportable electrical equipment'

IEE publication 'Code of Practice for In-service Inspection and Testing of Electrical Equipment, 3rd Edition'

BS EN 61557-6 - RCD-T test module option is capable of applying the full range of test current to an in-service accuracy

Lifting Operations and Lifting Equipment Regulations 1998 (LOLER) - QC-Check 4.0 is available with an optional data form for recording the result of a LOLER inspection as completed by an appropriately qualified person

