PAT and Cable Test automation and reporting system

out board
DataStrategy

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 PAT-Data software address evolving compliance standards and focus on enhanced workflow efficiency, essential to busy and growing production resource 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 PAT-Data 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 vailable 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 to 100 circuits. A further optional **RCD-T** module allows fully-isolated RCD tests with results recorded in PAT-Data.

PAT-Data 4.0 Software

The **PAT-Data** database carries full details of equipment preparation and 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 PAT-Data 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

PAT4 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 (±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.

PAT-Data 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 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

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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) - PATData 4.0 is available with an optional data form for recording the result of a LOLER inspection as completed by an appropriately qualified person.