



Multifunction Calibrators and Digital Multimeters



Precision calibration for wide workload coverage



Multifunction Calibrators & Digital Multimeters



Multifunction Calibrators & Digital Multimeters

Time Electronics have a range of test systems designed for laboratory calibration work. Multifunction calibrators encompass a range of capabilities to cover a wide testing workload including electrical and electronic test tools and various types of instrumentation. Laboratory grade multimeters provide precision measurement for testing of sourcing and simulating devices and instruments. Additionally we manufacture programmable calibrators that can be utilised in automated test rigs for applications including controlled electrical signal injection.

Our laboratory calibration solutions provide users with the key benefit of software driven calibration. Each model communicates with EasyCal Calibration Software to automate and optimise the calibration process. Increase speed of calibration, consistency of results and produce calibration certificates and reports to ISO 9001, ISO 17025, and other quality standards. With comprehensive features it provides the ideal platform for an efficient calibration program.



5025 Series 2 Multifunction Calibrators

Precision calibration for wide workload coverage



Efficient Multi-Product Calibration

The 5025 Series 2 models are multifunction calibrators that provide a wide range of precision outputs for the calibration of electrical test tools, meters, and various types of measuring devices. They combine performance and functionality with simple operation, making them suitable for calibration laboratories, workshops and on-site test facilities.

Functions include AC/DC voltage and current, digital frequency, variable resistance, conductance, capacitance, inductance, thermocouple and Pt100 simulation. AC and DC power calibration via simultaneous voltage and current output, with adjustable phase, and frequency to 500 Hz. An oscilloscope calibration option enables generation of levelled sine-waves up to 2.2 GHz.

Clamp meter calibration is simplified by additional turn coil ranges for DC and AC current, designed for use with the 9780 adaptor. Further options include an optical tachometer calibration adaptor, 100 A AC current transformer, and a power amplifier that increases the AC/DC voltage output drive capabilities to 100 mA.

Accessories include test lead sets, carry cases and rack mount kits. EasyCal software is available to enable software driven calibration.

Automate the Calibration Process: EasyCal Software

The 5025 models can be controlled by EasyCal software to automate the calibration process. This provides increased speed of calibration and consistency of results. Produce traceable calibration certificates and test reports for quality standards with additional uncertainty information for ISO 17025 conformance.

Features

- 0 to 1050 V AC/DC voltage
- 0 to 22 A AC/DC current
- Variable resistance
- Thermocouple and Pt100 simulation
- Power calibration
- Capacitance
- Optional oscilloscope calibration
- Clamp meter calibration
- RS-232, USB, and GPIB interfaces
- PC Virtual Control Software included
- EasyCal software compatible

Calibration Capabilities

- Analogue & digital multimeters, panel meters, process meters
- Clamp meters (with clamp coil option 9780)
- Power meters, watt meters
- Tachometers, chart recorders, data loggers
- Thermocouple and Pt100 meters, electronic thermometers
- Oscilloscopes and timer counters (with SCP option)



Basic Technical Specifications

Function	Range / Values	Best 1 year Specification	
		5025C-S2	5025E-S2
Voltage DC	0 to ± 1050 V	± 15 ppm of setting	± 40 ppm of setting
Current DC	0 to ± 22 A 1000 A with clamp meter adaptor (option 9780)	± 60 ppm of setting	± 120 ppm of setting
Voltage AC	2 mV to 1050 V / 20 Hz to 1 MHz sine-wave	± 0.05 % of setting	
Current AC	10 μ A to 22 A / 20 Hz to 5 kHz sine-wave 100 A with current transformer (option 9790) 1000 A with clamp meter adaptor (option 9780)	± 0.05 % of setting	± 0.07 % of setting
Digital frequency	0.1 Hz to 10 MHz	± 20 ppm of setting	
Digital period	100 ns to 10 s (fixed values 1, 2, 5 sequence)	± 20 ppm of setting	
Conductance	100 mS to 1 nS (decade values)	± 100 ppm of setting	
2-wire variable resistance	1 Ω to 1.1 G Ω	± 100 ppm of setting	
4-wire decade resistance (5025C only)	1 Ω to 100 k Ω	± 30 ppm of setting	n/a
RTD simulation	-180 to 850 °C. Type Pt100, Pt200, Pt500, Pt1000	± 0.03 °C	
Thermocouple simulation	-210 to 2315 °C. Type J, K, R, T, S, B, E, N, C, L, U	± 0.05 °C	
Capacitance	1nF, 10nF, 20nF, 50nF, 100nF, 200nF, 500nF, 1 μ F, 10 μ F, 20 μ F, 50 μ F, 100 μ F	± 0.2 % of setting	
Inductance (5025C only)	1mH, 1.9mH, 5mH, 10mH, 19mH, 50mH, 100mH, 190mH, 500mH, 1H, 10H	± 0.1 % of setting	n/a
Power	22 A, 1050 V, 23 kW, 40 to 500 Hz	ACV: 0.05 %, DCV: 0.01 %, ACI: 0.1 %, DCI: 0.05 %	
Phase / Power factor	$\pm 90.0^\circ$ / 0.00 to 1.00 PF	$\pm 0.25^\circ$	
Option 9780: Clamp meter adaptor	AC/DC Current up to 1000 A (DC, 45 to 90 Hz)	± 0.5 %	

Oscilloscope Calibration (SCP Option)

Amplitude	2 mV to 200 V (1 M Ω) and 1 mV to 2 V 50 Ω (Square-wave or DC)	± 0.05 %
Frequency (fixed values 1, 2, 5 sequence)	0.1 Hz to 10 MHz 20 MHz, 50 MHz, 100 MHz	± 0.1 ppm ± 20 ppm
Period (fixed values 1, 2, 5 sequence)	10 s to 100 ns 50 ns, 20 ns, 10 ns	± 0.1 ppm ± 20 ppm
Duty cycle	3 frequencies: 100 Hz, 1 kHz, 10 kHz, settable from 0 to 100 %	–
Fast-rise	< 400 ps. Bandwidth checking up to 400 MHz	–
Levelled sine wave	50 to 1000 kHz & 10 MHz to 2.2 GHz levelled sine-wave (0.35 to 3.5 V pk-pk)	Amplitude ± 0.5 %, Frequency ± 50 ppm

External Options

External Adaptors/Instruments	9780: Clamp meter adaptor (1 and 50 turn coil) • 9773: Optical tacho adaptor • 9790: 100 Amp AC current transformer 9760: Power amplifier (60 V AC, 90 V DC, 100 mA) • 9762: Rubidium high stability frequency reference 9764: Current probe calibration adaptor • 9766: Low noise attenuator (1000:1) • 9767: Low noise attenuator (100:1)
Accessories	9085: Soft carry case • 9059: Hard transit case • 9728: 19 " Universal rack mount kit • 9796: Premium test lead set
EasyCal Software	ECFLA: EasyCal full license • 9777: Bar code reader • 9779: Job and address label printer EC2FL/EC2WL: Additional user licenses • EAD: EasyAdmin add-on • EWC: WebCerts • CREP: Crystal Reports software

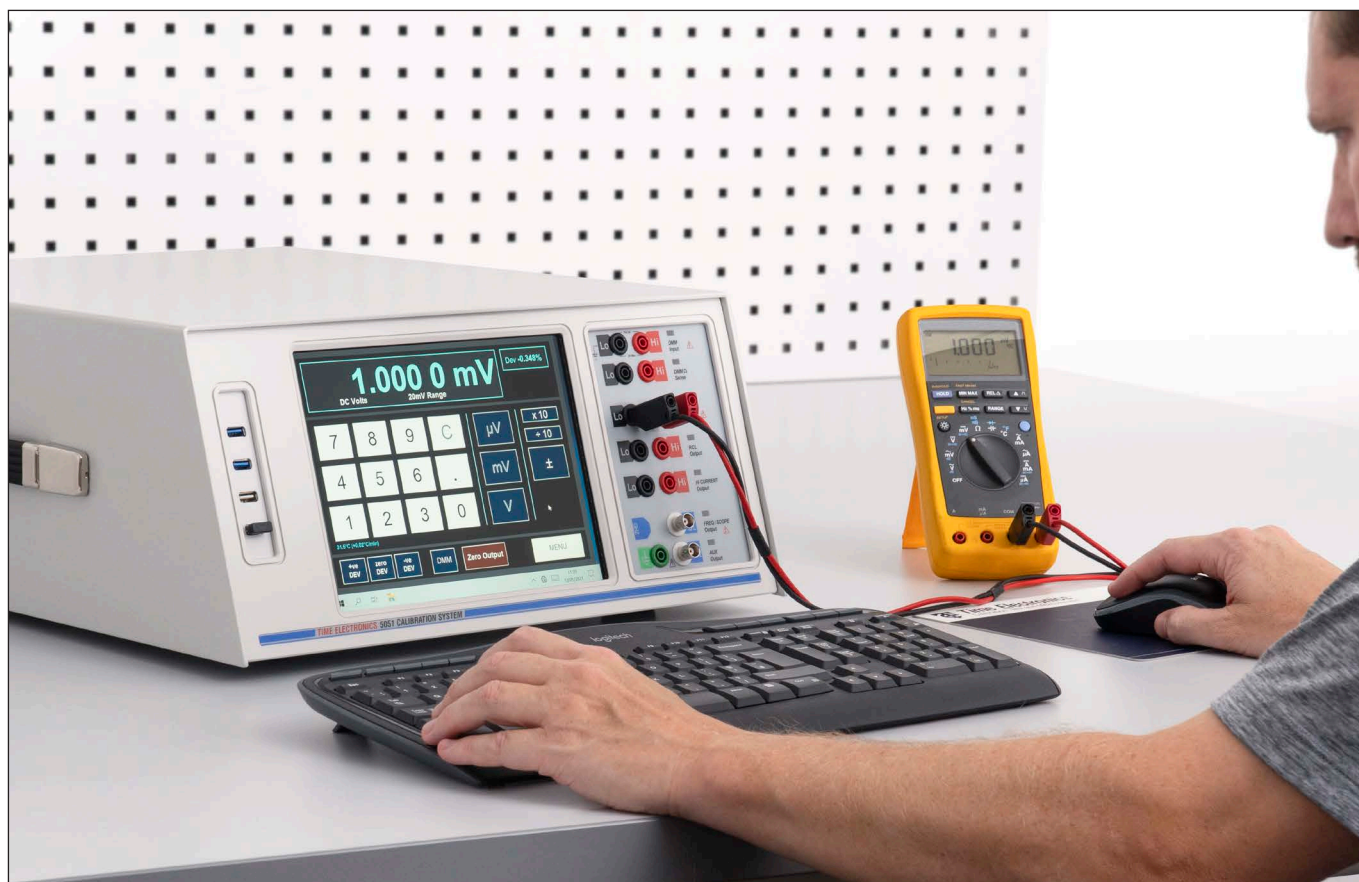
General Specifications

Mains voltage.....	100 to 260 V AC 50/60 Hz.
Fuse ratings	3.15 A anti-surge.
Power consumption	120 W typical, 200 W maximum.
Temperature performance	Operating: 10 to 40 °C. Storage: -10 to 50 °C.
Operating humidity.....	< 80 % non condensing.
Altitude	0 to 3 km. Non operating: 3 to 12 km.
Warm up	30 minutes to full accuracy.
Interfaces.....	RS-232, GPIB and USB (via RS-232 adaptor). Command set: Standard SCPI.
Dimensions / Weight.....	W 447 x H 152 x D 470 mm. Weight: 16.5 kg.
Supplied accessories.....	Test lead set, PC virtual control software, RS-232 cable, RS-232 to USB adaptor, user manual.



5051Plus Multifunction Calibration System

Precision calibration for wide workload coverage



Calibrator / Multimeter / Touch Screen PC

A system that combines a high accuracy calibration source with a precision digital multimeter. The 5051Plus incorporates a wide range of functions to provide users with a multi product calibration solution. It is suitable for rapid calibration with automated test runs using EasyCal software, covering electrical test tools, process instrumentation, oscilloscopes and more. Adaptors and accessories are included for applications such as clamp meter and optical tachometer calibration. Supplied test leads enable the necessary connections for nearly all applications.

Calibrator: Provides a wide range of calibrated outputs for AC/DC voltage and current, resistance, capacitance, inductance, RTD and thermocouple simulation.

Multimeter: The integral 6.5 digit multimeter measures DC voltage to 1000 V, AC voltage to 750 V, resistance to 100 M Ω , and frequency to 300 kHz.

Computer: A intuitive user interface with large 10.4" touch screen display. The 5051Plus has an in-built PC with a 64 bit dual core processor, running Windows 10. For manual operation it features the calibrator and multimeter control applications, with the wide range of functions easily selectable using mouse, keyboard or touch screen.

EasyCal Software: Loaded as standard, EasyCal enables automatic calibration to increase speed and efficiency of work. It features applications to manage and administrate both inventory and quality control. To complement the system a printer and connectivity kit is supplied, for generation of certificates and reports. Further supplied accessories include a bar code reader for quick identification of devices in EasyCal, and label printer for creating stickers and labels to be placed on instruments. With EasyCal the operator can communicate with compatible test instruments via the 5051Plus system, creating a multi-parameter calibration workstation.

Features

- Integral multifunction calibrator and 6.5 digit multimeter
- Source up to 1050 V AC/DC voltage
- Source up to 22 A AC/DC current
- Source resistance (up to 1 G Ω), capacitance and inductance
- Oscilloscope calibration
- Measure voltage, current, resistance, frequency
- Thermocouple and Pt100 simulation and measurement
- EasyCal software, adaptors and accessories included
- Communicate with EasyCal compatible instruments

Calibration Capabilities

- Multimeters, clamp meters, ohmmeters, AC/DC signal sources
- Decade boxes, data loggers, RCL meters
- Tachometers, oscilloscopes, frequency meters
- Temperature indicators, meters, simulators
- Loop and process calibrators
- Additional calibration capabilities using compatible instruments



Calibrator (Source)

Function	Range / Values	Best 1 Year Specification
Voltage DC	0 to ± 1050 V	± 15 ppm of setting
Current DC	0 to ± 22 A	± 80 ppm of setting
Voltage AC	1 mV to 1050V (10 Hz to 1 MHz, sine-wave)	± 300 ppm of setting
Current AC	10 μ A to 22 A (20 Hz to 1 kHz, sine-wave)	± 0.05 %
Clamp Meter Adaptor x50 turn	AC/DC Current up to 1000 A (DC, 45 to 90 Hz)	± 0.5 %
Capacitance	1 nF, 10 nF, 100 nF, 1 μ F, 10 μ F, 100 μ F (100 V Max)	± 0.25 %
Inductance	1mH, 1.9mH, 5mH, 10mH, 19mH, 50mH, 100mH, 190mH, 500mH, 1H, 10H	± 0.1 %
Decade Resistance	1 Ω to 1 G Ω (decade values)	± 20 ppm of setting
Full Range Resistance	1 Ω to 120 M Ω (variable)	± 100 ppm of setting
Conductance	1 s to 1 ns (fixed values, decade steps)	± 20 ppm of setting
Thermocouple Simulation	-270 to 1820 °C (type J, K, R, T, S, B, E, N)	± 0.15 °C
Pt100 Simulation	-180 to 850 °C	± 0.07 °C

Oscilloscope Calibration

Amplitude	6 mV to 200 V and 6 mV to 2 V 50 Ω (Square-wave or DC)	± 0.05 %
Frequency/Period	0.1 Hz to 100 MHz / 10ns to 10s (fixed values 1, 2, 5 sequence)	± 0.1 ppm (0.1 Hz to 10 MHz / 100 ns to 10 s) ± 20 ppm (20, 50, 100 MHz / 50, 20, & 10 ns)
Duty Cycle	3 frequencies: 100 Hz, 1 kHz, 10 kHz, settable from 0 to 100 %	–
Fast-Rise	< 400 ps. Bandwidth checking up to 400 MHz	–
Opt 9769: Scope 2.2 GHz Sweep	100 MHz to 2.2 GHz levelled sine-wave (0.5, 1, 1.5 V pk-pk)	Amplitude ± 1 %, Frequency ± 20 ppm

6.5 Digit Multimeter (measure)

Function	Range / Values	Best 1 Year Specification
Voltage DC	0 to 1000 V	35 ppm of rdg + 6 ppm of rng
Current DC	0 to 3 A	500 ppm of rdg + 50 ppm of rng
Voltage AC	0 to 750 V	0.06 % of rdg + 0.04 % of rng
Current AC	0 to 3 A	0.1 % of rdg + 0.04 % of rng
Resistance	0 to 100 M Ω	100 ppm of rdg + 50 ppm of rng
Frequency	3 Hz to 300 kHz	0.01 % of rdg
Thermocouple	-270 to 1800 °C (Type J, K, R, T, S, B, E, N)	± 0.5 °C
Pt100	-180 to 850 °C	± 0.08 °C

PC Information / General Specifications / Options

Feature	Specification / Details
PC Information	Processor: 64 bit, dual core (or equivalent) / RAM: 4 GB (or higher) / Hard Drive: 120 GB solid state. Operating System: Windows 10 / Display: 10.4" Touch Screen LCD / Ports: 4 x USB, 1 x Fast Ethernet. Included Software Programs: Calibrator and DMM control programs, EasyCal calibration software suite. Supplied Accessories: Keyboard, Printer, Cal & ID Label Printer, 4 port USB hub, Numeric keypad, USB memory stick.
General Specifications	Warm up: 30 minutes to full accuracy / Settling Time: Less than 5 seconds. Temperature Performance: Operating: 5 to 45°C. Calibration: 15 to 28 °C. Storage: -10 to 50 °C. Operating Humidity / Altitude: < 80 % non condensing. Altitude: 0 to 3 km. Non operating: 3 km to 12 km. Line Power: 100 to 230V AC 50/60 Hz. 200 W maximum. Dimensions / Weight: W 430mm, H 202mm, D 538 mm / 23 kg.
Supplied Items	5051Plus Calibration System / Clamp Meter Adaptor / Optical Tacho Adaptor / Premium Test lead Set / Soft Carry Case. Printer & Connectivity Kit / Cal & ID Label Printer / Bar Code Reader / Manual Control Software / EasyCal Software / Factory Cal Cert.
Options	9769: Internal Scope 2.2 GHz Levelled Sine Generator / 9762: External Rubidium Frequency Reference / 9764: Current Probe Adaptor 9790: 100 Amp AC Current Transformer / 9760: Power Amplifier (60 V AC, 90 V DC - 100 mA) / 5077: Power Calibrator. Digital Pressure Gauges / Dry Block Calibrators / IR Calibrators / C134: UKAS Calibration Certificate (ISO 17025).
EasyCal Software Extras	9779: Job & Address Label Printer / EC2FL Additional EasyCal User License / EAD: EasyAdmin Add-On. EWC: WebCerts Add-On / CREP: Crystal Reports Software.



5011 Resistance/Temperature Calibrator

A versatile, high accuracy calibrator that is primarily a programmable resistance/RTD source. Internal options such as DC voltage and thermocouple simulation, DC current, and 10 MHz frequency can be added to increase capabilities.

- 1 Ω to 120 M Ω , 100 ppm basic accuracy
- RTD simulation
- Optional thermocouple simulation
- 0 to 22 V DC voltage option
- 0 to 220 mA DC current option
- 10 MHz frequency option
- RS-232, GPIB, and USB interfaces
- Front panel operation
- PC/laptop control via EasyCal software
- Rack mount kit option
- W 451 x H 152 x D 272 mm, weight 7 kg



5018 Programmable DC/AC V/I Calibrator

A high precision calibration instrument that can be configured as a simple benchtop DC voltage calibrator or advanced AC/DC voltage and current source controlled via PC, performing any number of tasks as part of a complex ATE test rig.

- 15 ppm accuracy, 0.5 ppm resolution
- 0 to 22 V DC
- Optional 0 to 22 V AC, 220 V DC and 1 kV DC
- Optional 0 to 220 mA AC/DC
- 1999999 full scale +10 % over-range
- Deviation control -9.999 % to +9.999 %
- Ramping feature
- RS-232, GPIB, and USB interfaces, EasyCal software compatible
- Ideal for ATE applications
- Front panel operation
- Rack mount kit option
- W 451 x H 152 x D 272 mm, weight 8.2 kg



5045 Oscilloscope and Timer/Counter Calibrator

A high performance benchtop instrument for calibrating a wide range of oscilloscopes, frequency meters and timer counters. It provides outputs for amplitude, frequency, period, duty cycle, and bandwidth. Frequencies are generated from an internal 0.1 ppm temperature controlled oscillator.

- 1 mV to 220 V square wave/DC
- Frequency 0.1 Hz to 100 MHz
- Time marker/period 10 s to 10 ns
- Fast rise < 300 ps
- Bandwidth check up to 600MHz
- Optional 2.2 GHz levelled sweep
- Rubidium frequency reference option
- Front panel operation
- Virtual PC calibrator control software supplied as standard
- PC/laptop control via EasyCal software
- W 451 x H 152 x D 272 mm, weight 8.2 kg



5077 Multifunction Power Calibrator

A high accuracy calibrator for sourcing AC/DC voltage and current, and single-phase power. It can be used as a workload calibrator for verification of electrical measurement devices, or as a programmable source in an automated test rig for meter testing.

- 0 to 1050 V AC/DC voltage
- 0 to 22 A AC/DC current
- Single-phase power simulation
- Up to 23 kVA or 23 kW
- Phase angle $\pm 90.0^\circ$
- Power factor 0.00 to 1.00
- 40 to 500 Hz adjustable frequency
- 100 A AC current transformer option
- Single/50-turn current clamp adaptor option
- Operation via EasyCal or virtual control software
- W 455 x H 155 x D 480 mm, weight 16.5 kg



5065 Bench Digital Multimeter

A versatile 6.5 digit bench multimeter with 19 measurement functions. Low cost, easy to use, stability, and high accuracy make the 5065 an ideal DMM for a variety of applications. With a comprehensive range of features the 5065 is suitable for test engineers, R&D, service, and calibration technicians.

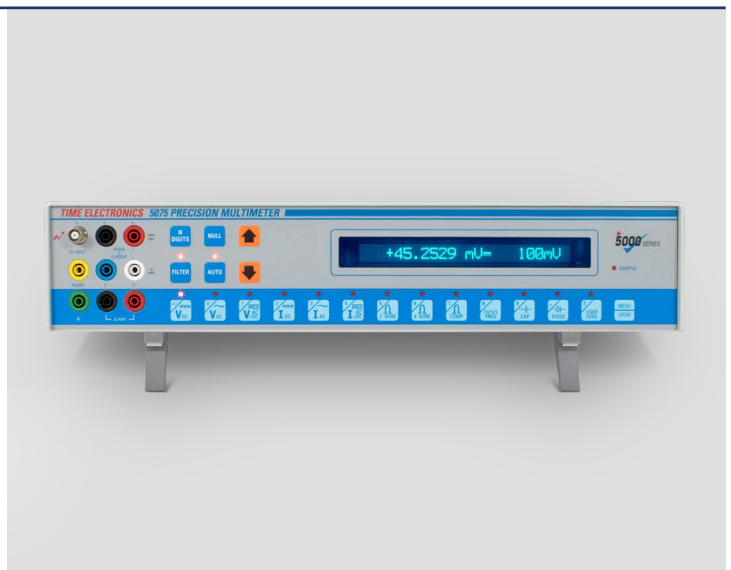
- 6.5 digit resolution
- Accuracy 0.005 % DC voltage
- RS-232 and USB interfaces
- Optional GPIB interface
- Temperature measurements
- SCPI command set
- High sample rate
- 10 channel scanner card option
- PC/laptop control via EasyCal software
- W 210 x H 85 x D 350 mm, weight 4.4 kg



5075 Precision Digital Multimeter

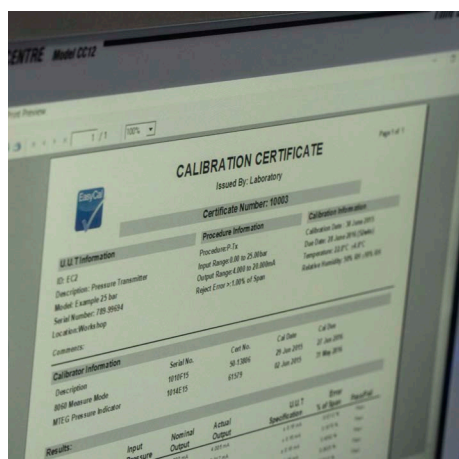
A benchtop digital multimeter that combines high performance with simple operation. The 5075 easily measures from nanovolts to 10 kV, from picoamps to 30 amps, from micro-ohms up to 1 G Ω , from picofarads to 300 μ F, with up to 7½ digit accuracy.

- 7 digit resolution
- 10 nV to 10 kV, 10 pA to 30 A
- Resistance, capacitance, frequency
- 18 ppm accuracy/best 1 year
- 10 channel low thermal emf scanner option
- PC/laptop control via EasyCal software
- GPIB interface (USB adaptor available)
- Rack mount kit option
- W 423 x H 89 x D 415 mm, weight 8.5 kg





Calibration Software



EasyCal is a complete software package with features covering all aspects of calibration work and management. It is designed to reduce workload, improve efficiency, and provide the essential platform for companies looking to create and sustain an effective calibration program.

The comprehensive features simplify the administration process from reminder reports through to despatch. With a familiar and intuitive user interface all operators can quickly learn and navigate through the applications. This allows fast, straightforward implementation and integration of the software.



Manage, Automate and Optimise the Calibration Process

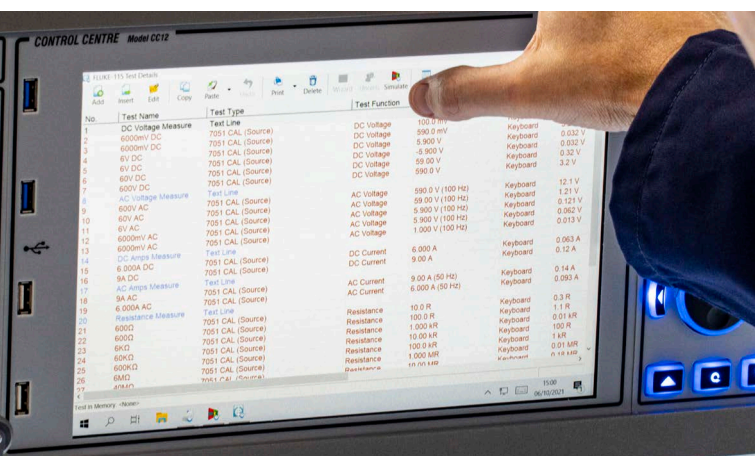
Communication and Control

EasyCal automates calibration runs by allowing the user to remotely control and communicate with test instruments such as calibrators and multimeters. User friendly features and controls aid the process to decrease calibration times and increase throughput. EasyCal driven calibration can be performed with compatible Time Electronics process instruments including dry block calibrators, temperature baths, digital pressure gauges, pressure controllers, and process calibrators. EasyCal is also utilised on CalBench systems where integrated modules communicate with a central control centre for a unified solution.

For Multiple Industries and Disciplines

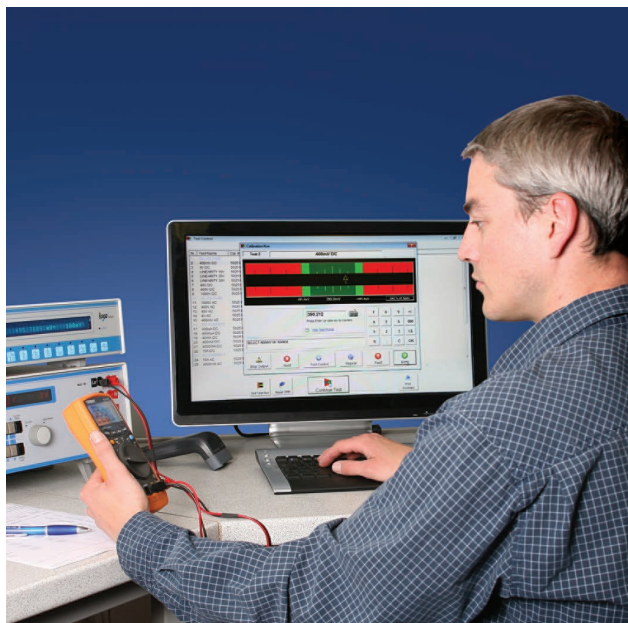
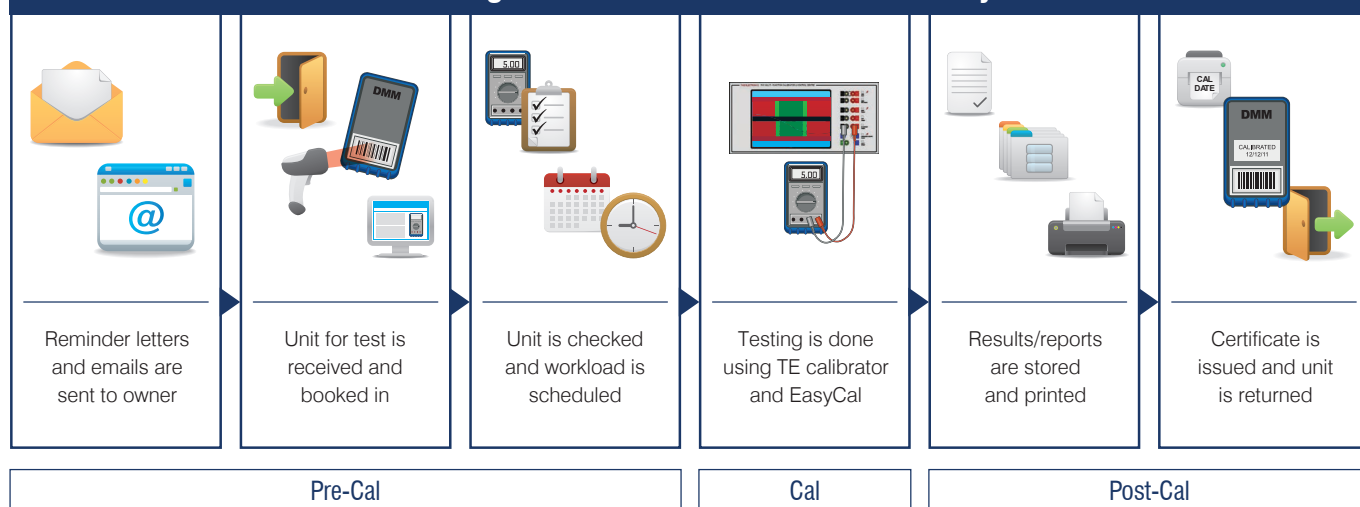
EasyCal is a versatile solution to multi-device calibration with the comprehensive functionality that is required across industries. It is globally used as the principal software in both calibration businesses and companies with on-site test facilities.

EasyCal is also designed for universal testing applications and can cover a wide range of disciplines. Users can calibrate and verify various instruments and devices: electrical and electronic; level, pressure, and flow; temperature and loop; mechanical and dimensional.





Automating the Calibration Process with EasyCal



EasyCal: For the Calibration Process

Automating the calibration process brings important benefits and provides increased speed of calibration and consistency of results.

Pre-Calibration

The calibration management features of EasyCal make the planning and organization of instrumentation calibration simple. A recall/reminder system informs the user of upcoming jobs, and search functions allow the user to quickly identify a unit for test.

Calibration

EasyCal controlled calibration significantly decreases testing times, meaning less instrument downtime and faster turnaround. This improves throughput meaning greater return on investment. EasyCal optimises the process by allowing the user to create procedures quickly and easily with the help of the included design wizards and pre-written templates.

Post Calibration

Produce traceable calibration certificates and test reports for quality standards. These can be printed, stored, or emailed as PDFs. EasyCal has a selection of pre-formatted certificate templates that are suitable for displaying typical calibration results.

The Core Benefits of using EasyCal

Achieve compliance with quality standards

- Automated document control ensures conformity and quality
- Establish procedures to maintain repeatability and monitor quality
- Schedule and maintain calibration intervals.
- Evidence of traceability to national standards
- Record calibration environmental conditions
- Produce calibration labels, maintain calibration history
- Reduce possibilities for errors or omissions
- Electronic record retention ensures integrity for successful audits

Create an efficient control and management system

- Reduce testing times
- Eliminate continual outsourcing calibration costs
- Full control over the calibration process
- Improve turnaround
- Quick and easy solution to instrument analysis when needed
- Internal scheduling for calibrations. No external factors
- Centralised document management
- On demand networked review of certificates and reports



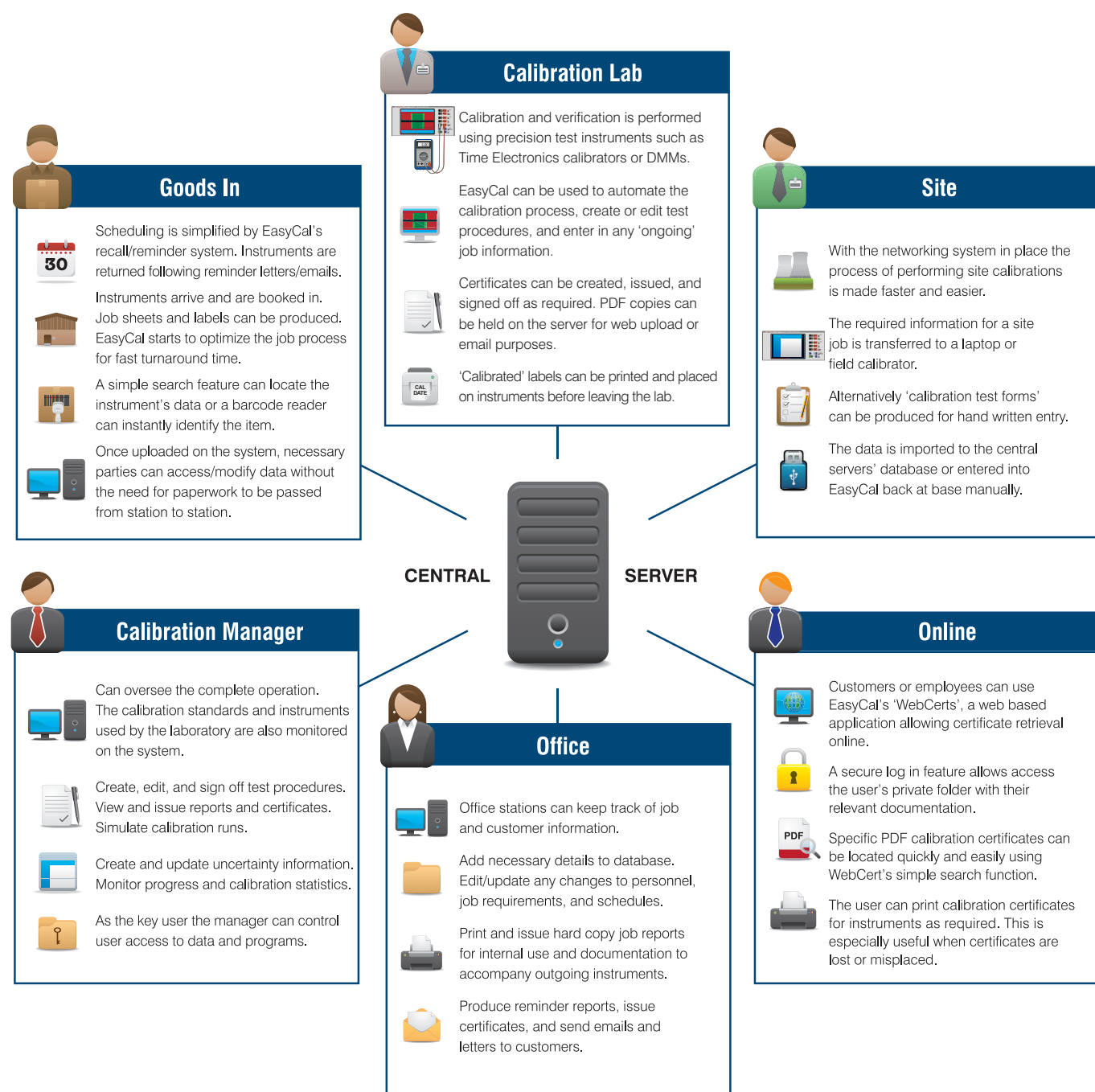
Networking with EasyCal

For multi-user systems EasyCal can be implemented as the universal software for administration, management, and control. With designated features for use in different workstations, EasyCal can provide a solution to calibration businesses with customers as well calibration departments within industrial plants.

Data can be shared and accessed on a central server, creating an organised and efficient networking set-up. EasyCal's pre-calibration features enable automated scheduling and also speed up the booking in process with quick instrument identification.

Calibration runs can be automated by using a compatible Time Electronics calibrator with EasyCal. Once calibration has been performed the data can be made available on the server to the necessary parties. Hard copy certificates and reports can be issued by authorised staff.

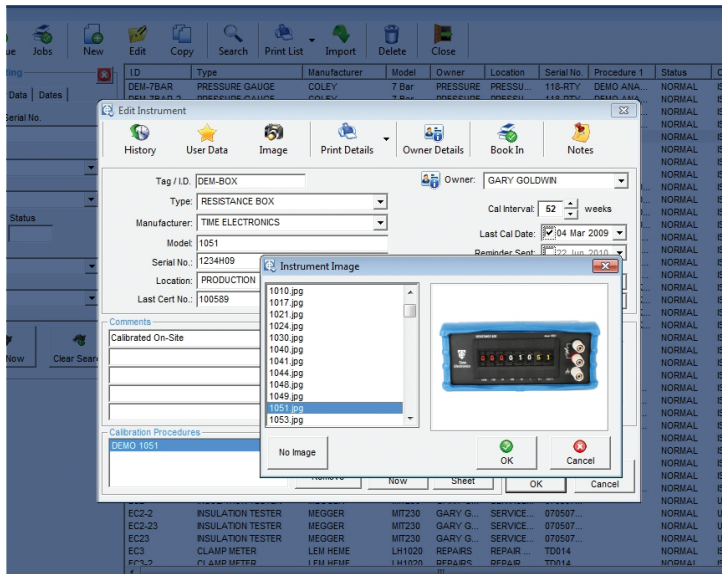
Enhanced security features can be added for increased protection, allowing a master user to control access rights to data and applications. Also available is an online application enabling users to upload and retrieve certificates.





EasyCal Calibration Software

Overview of applications and features



Inventory, Reminders, and Jobs

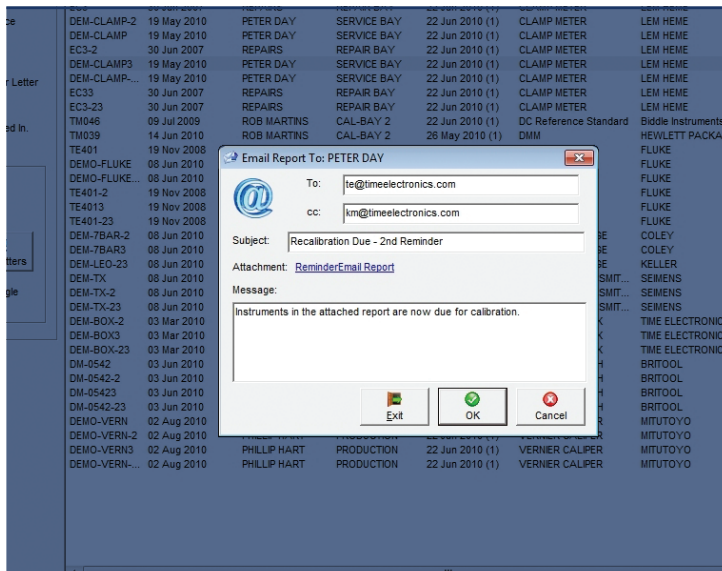
A comprehensive inventory database can be created and customised to company requirements. For internal calibration and quality management, departments and users can be specified. Alternatively EasyCal can be used as the controlling system for a calibration business based around customers and owners.

Search

A powerful search feature enables the user to enter specific criteria to quickly find the required data. When adding details the user is aided by drop-down lists, which automatically update when new information is added.

Input Fields

Used to add details such as ID and serial number, manufacturer and model, instrument status and service notes. In addition custom fields can be created to integrate with a company system. Images can be uploaded to provide further reference.

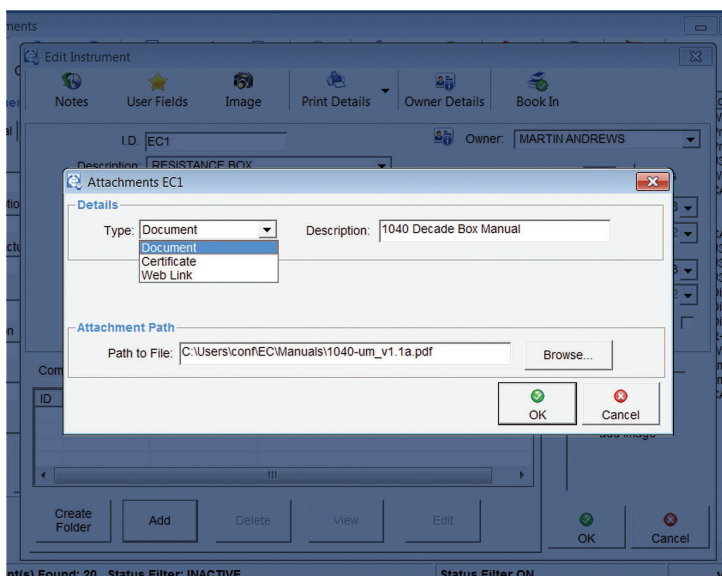


Instrument Recall and Reminder System

Instruments which are due for calibration are listed on screen. Reminder letters and lists can be printed or emailed directly to the customer or department. An advanced notice period can be set to bring forward the recall date allowing for response time.

Job Management

When a unit for test is booked in the job process starts. Specific information about the job is entered; such as 'service required', 'sub contracted' and 'accessories supplied'. A job sheet and label can be produced at this stage to accompany the instrument. As the job is put through the system these parameters can be updated, for example 'quote price', 'job status' and 'invoiced'.



Document Links and Attachments

Create links to technical files, specifications, web pages, word documents, videos, and more. These can be set to automatically display prior to the calibration run.

Devices and Standards used for Calibration

Traceability information for instruments and standards that perform the calibration work is stored and maintained by EasyCal.

Uncertainties

Uncertainty tables for laboratory and site can be created for each calibrating instrument. These are then automatically processed and applied to certificates as required.



Procedure Writing and Editing

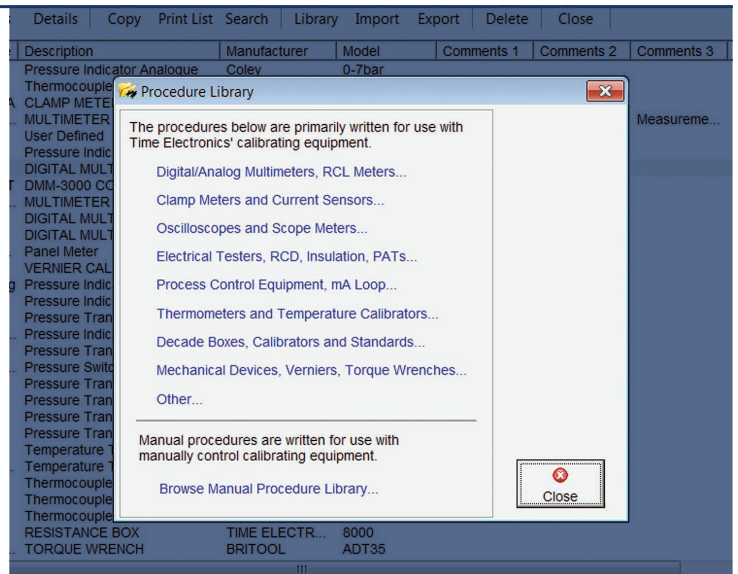
Creating and editing test procedures is made simple with an intuitive, user-friendly interface. Editing test information can be done by adding, inserting, or copy and pasting. EasyCal keeps track of each time a procedure is edited.

Procedure Library

A calibration library comprising of over 1200 procedures covering a wide variety of instruments and devices is included as standard.

Procedure Templates

Procedure templates for multimeters, clamp meters, decade boxes, insulation testers, and more can be used for creating any new procedures as required.



Fast Procedure Creation and Editing

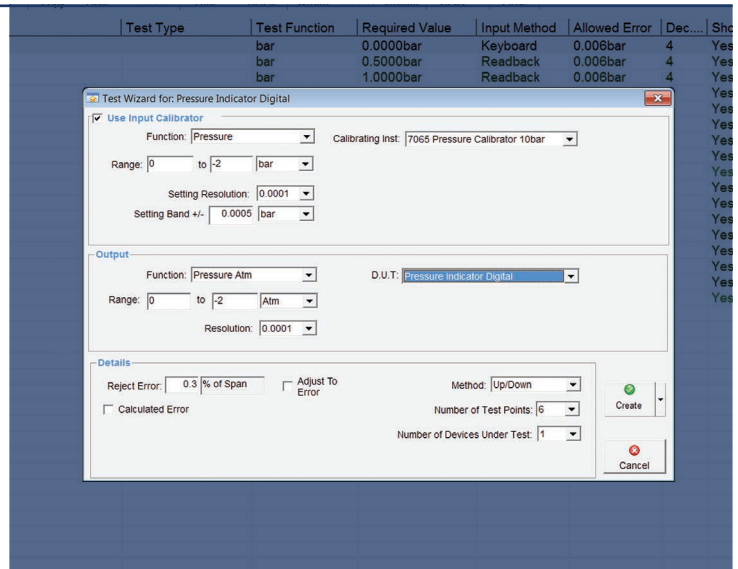
Copy and paste multiple tests. Globally edit a group of tests. Colour coded listing helps sort and identify different test types.

Test Wizards

EasyCal features intuitive wizards for calibrating typical process devices such as transmitters, sensors, and pressure gauges. They provide users with a fast method to create procedures. Basic criteria about a device is entered, then the wizard creates a set of tests based on this information.

Procedure Simulation

The Calibration Run Simulator enables a procedure to be tested without the need for a controlling instrument. To further assist with development of procedures a test can also be edited during the actual calibration run.



Format Certificates

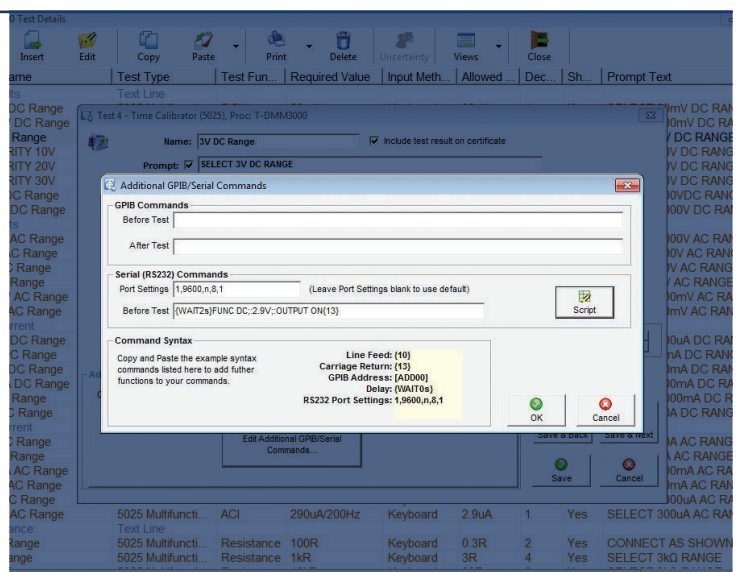
Colour code and add borders to test group titles. Add column headers where a change of layout is required. A preview feature allows the user to check the certificate layout to determine if formatting is correct.

Conversion Tables

Conversion tables for thermocouples, RTDs, current transformers, and clamp meter adaptors are included. Alternatively user-defined tables can be created.

Remote Commands

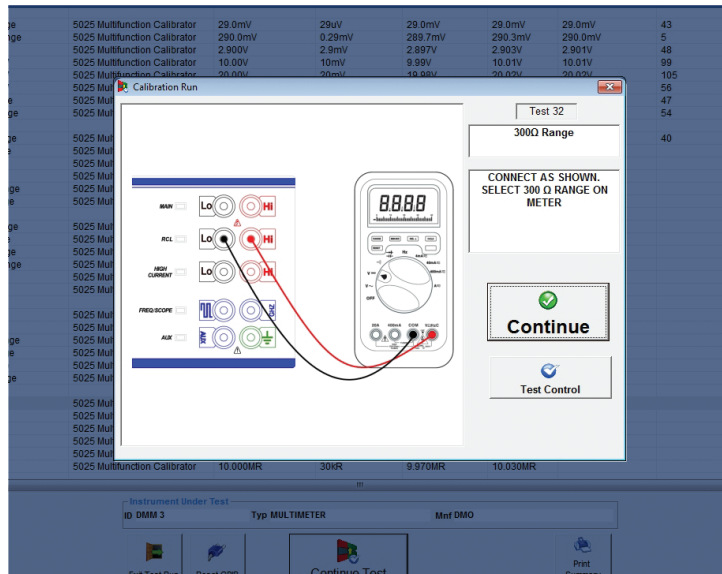
For more complex instrument control, commands can be sent on a test-by-test basis or run as a script. Closed loop calibration is also achievable using the universal readback feature. This allows EasyCal to control third party calibration equipment and communicate with devices under test.





EasyCal Calibration Software

Overview of applications and features



Instrument and Device Calibration

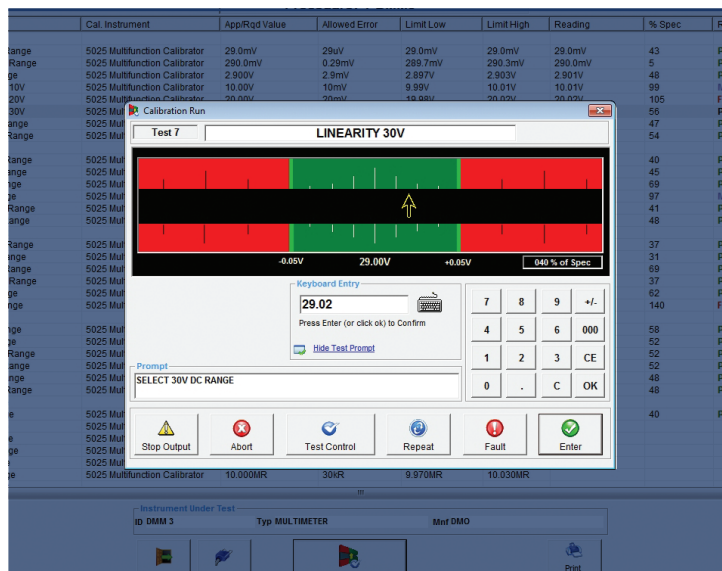
Automated calibration run provides fast and accurate collection of data, whether using direct instrument control or manual entry. EasyCal guides the operator through the procedure using graphical test screens and user prompts.

Search

Selection of the device under test is quick and easy. With the use of a barcode scanner this selection becomes automatic.

Calibration Prompts

Text and graphical prompts aid the user with instrument range selection and connection. So even the most complex calibrations can be performed with relative ease.

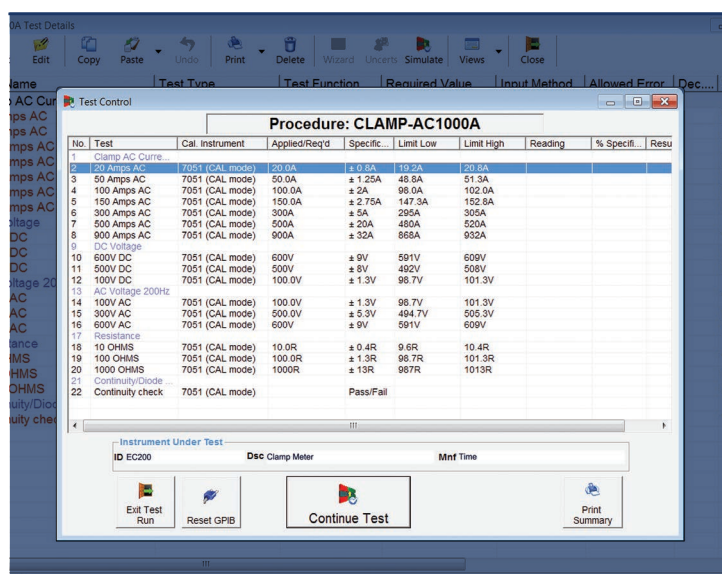


Graphical Test Screen

The calibration run is made simple and efficient by a graphical user-interface, which increases speed of data entry. The colour coded indication bar displays the test limits. This allows the operator to easily identify out of tolerance results.

Test Control

At any stage during the calibration run a summary can be displayed, this includes both completed and remaining tests. Colour coding indicates tests passed or failed. The operator is able to move forward or backward through the procedure as required.



End of Calibration Run

Data for every test is stored, including a snap shot of the procedure used. If required calibration comments and service history can be updated. The operator is able to print the certificate, produce a calibration label and/or store the results to be issued as required.

Recovery Mode

If for any reason a calibration run is interrupted, EasyCal's recovery mode feature allows the user resume the test run from the point of termination.

Calibration Test Forms

Alternatively 'calibration test forms' for hand written results are available. This data is then entered manually into EasyCal at a later date.



Certificates/Reports/Data Management

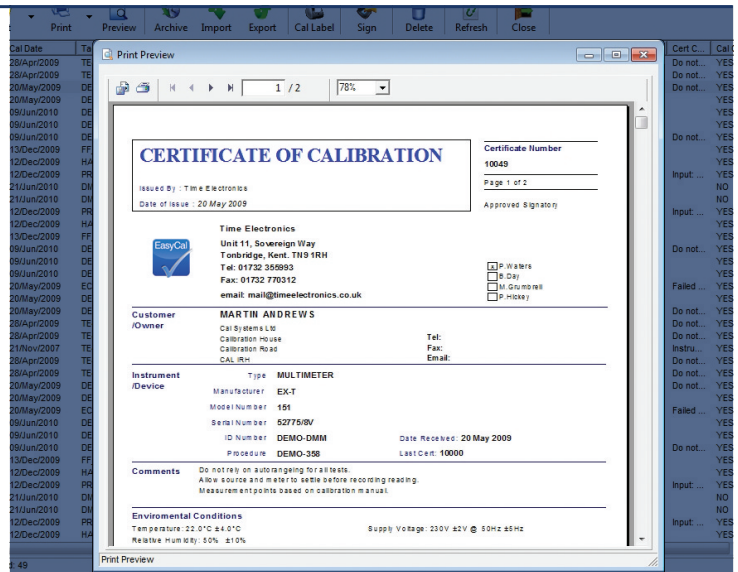
Produce, print, and store calibration certificates, reports, and labels. Simple search facilities enable the user to locate any data on demand. Keeping track of instrument history and servicing is made easy.

Certificate Templates

A range of pre-formatted templates are available for immediate use. A company logo can be added without the need for 3rd party software.

Electronic Signatures

Password protected electronic signatures allow management to approve certificates. In addition a scanned image of the signature can automatically be inserted, eliminating the need to print certificates.



Built-in PDF Engine

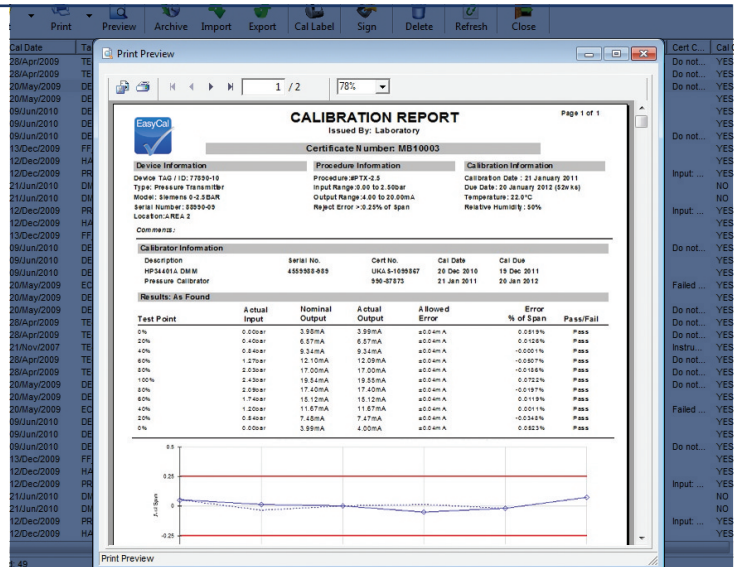
Generate PDF reports and certificates ready for emailing and universal review.

Calibration Reports

Documented traceability provides a recorded audit trail. Reports showing calibration duration times can assist with costing and assessments.

Archive

The results database can be streamlined by using the archive feature. This improves data organisation and management. Archives are quickly retrieved, giving instant access to historical certificate data.



Import and Export

Exchange data from one system to another using the import/export feature. This method is ideal for site and field calibration work, where data is recorded externally then uploaded to the main database upon return.

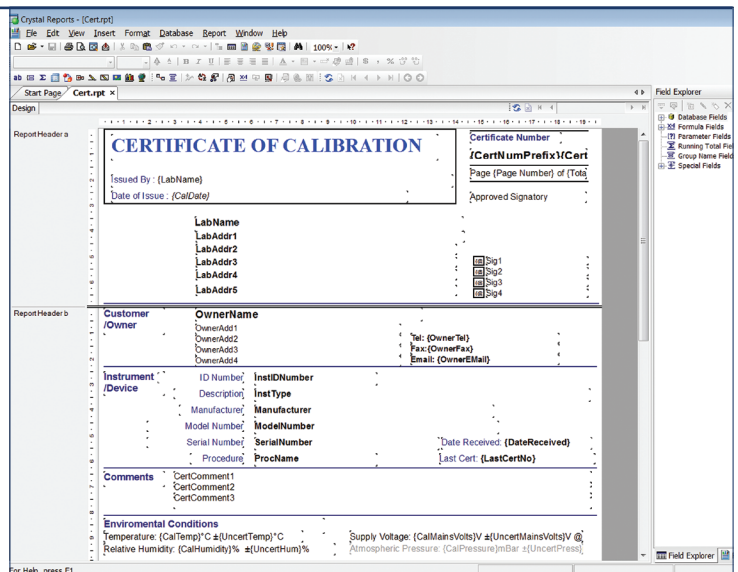
Customise

Crystal Reports (optional) allows full modification of certificate, label, and report layouts. Design custom reports using queries, formulas, and running totals.

Add-Ons

EasyAdmin: An optional add-on that enables advanced security for EasyCal via user rights and access levels. It provides a central administration point for calibration instruments, certificate information and user fields.

WebCerts: A web based application that enables users to upload & retrieve certificates and reports online. A secure log in feature allows access the user's private folder, storing their relevant documentation.



55

Y E A R S



Time Electronics
Calibration, Test and Measurement

*Time Electronics Ltd, Unit 5, TON Business Park, 2-8 Morley Road,
Tonbridge, Kent, TN9 1RA. United Kingdom.*

T: +44 (0) 1732 355993 F: +44 (0) 1732 350198 E: mail@timeelectronics.co.uk

www.timeelectronics.com