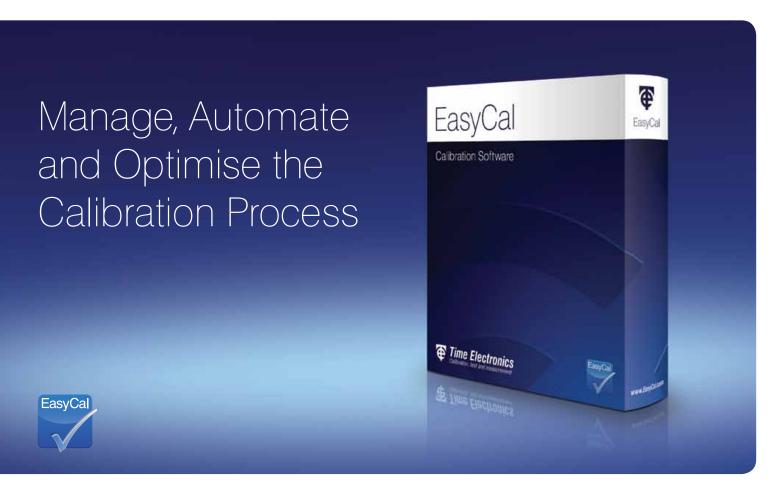


EasyCal Calibration Software

The comprehensive solution to calibration work and management





About Easycal

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.

Communication and Control

EasyCal automates calibration runs by allowing the user to remotely control and communicate with compatible calibrators and DMMs. User friendly features and controls aid the process to further decrease calibration times. EasyCal can also read back values and data from compatible Time Electronics pressure and process instruments, and can be used with external instruments such as dry block calibrators.

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.

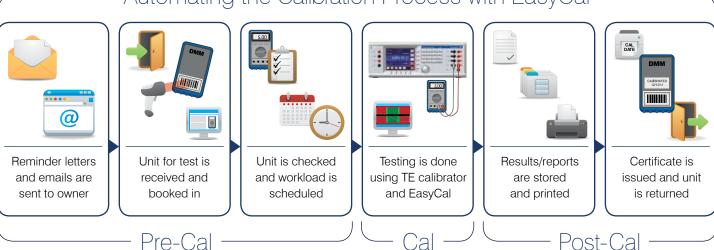
EasyCal is also designed for universal testing applications and can cover a wide range of disciplines. Users can calibrate and verify various instruments and devices: electrical and electronic; level, pressure, and flow; temperature and loop; mechanical and dimensional.

Features

- Communicate with calibrators, DMMs, bench modules
- · Automated planning and scheduling
- · For use with multiple devices and instruments
- · Print/email/store certificates and reports
- · Network compatible
- Produce calibration labels
- · Quickly generate procedures using templates
- 1200+ pre-written test procedures included
- · Calibration due reminder system
- · E-mail reminder letters and lists
- · Customise reports and certificates
- · Create PDF reports and certificates (PDF engine)
- · Print and read bar codes
- Universal instrument control
- HART and Foundation Fieldbus communication
- Secure user log in and electronic signatures
- Create uncertainty tables for laboratory & site
- · WebCert feature for online certificates







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 organisation 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: Easily produce calibration certificates and reports to ISO 9001, ISO 17025, and other quality standards. These can be printed, stored, or emailed as PDFs. EasyCal has a selection of preformatted certificate templates suitable for displaying typical calibration results.



The Core Benefits of using EasyCal

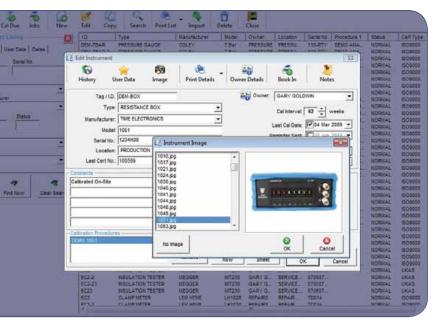
Achieve compliance with quality standards

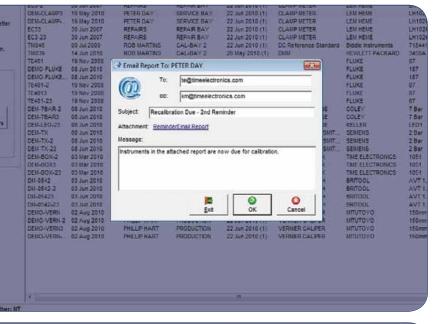
- Automated document control ensures conformity and quality
- Establish procedures to maintain repeatability and monitor quality
- · Schedule and maintain calibration intervals.
- Evidence of traceability to national standards
- · Record calibration environmental conditions
- · Produce calibration labels,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

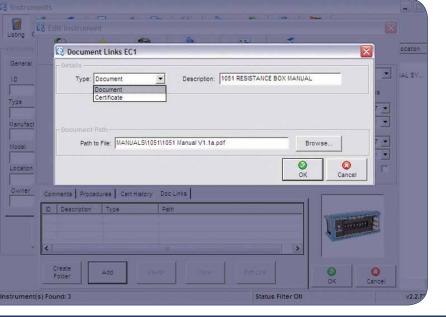
Create an efficient control and management system

- · 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









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

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.

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

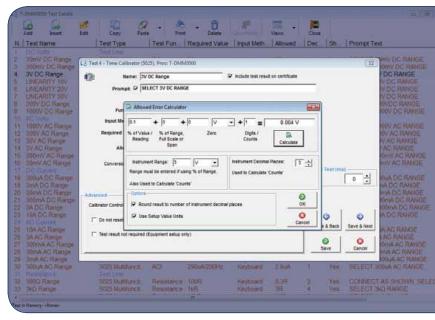
Colour code and add borders to test group titles. Add column headers where a change of layout is required. A preview feature allows the user to check the certificate layout to determine if formatting is correct.

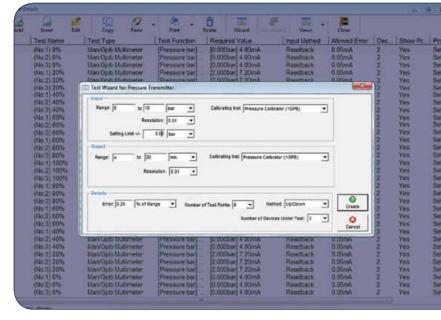
Conversion Tables

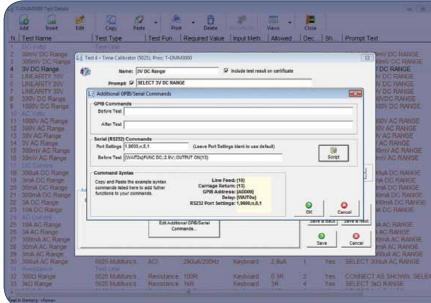
Conversion tables for thermocouples, RTDs, current transformers, and clamp meter adaptors are included. Alternatively user-defined tables can be created.

Remote Commands

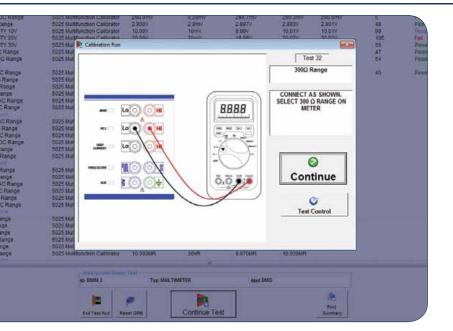
For more complex instrument control, commands can be sent on a test-by-test basis or run as a script. Closed loop calibration is also achievable using the universal readback feature.



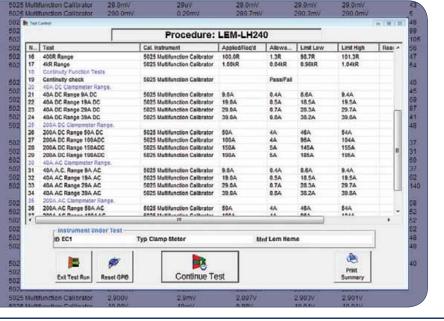












Instrument and Device Calibration

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 has a recovery mode that allows the user to resume 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.

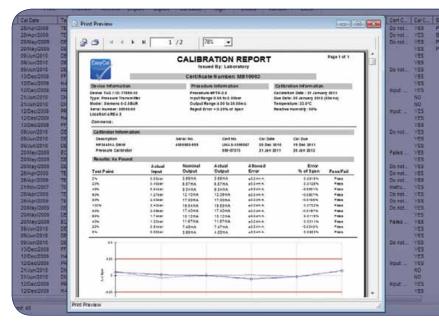
Import and Export

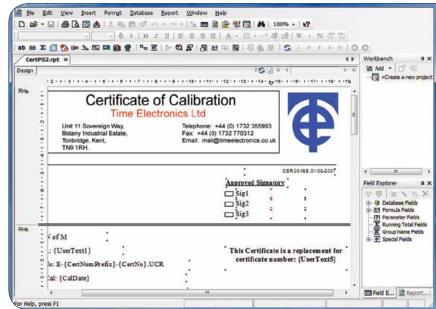
Exchange data from one system to another using the import/export feature. This method is ideal for site and field calibration work, where data is recorded externally then uploaded to the main database upon return.

Customise

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



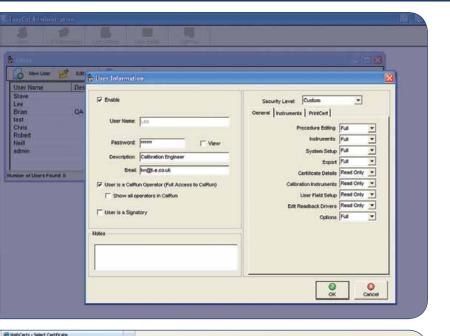




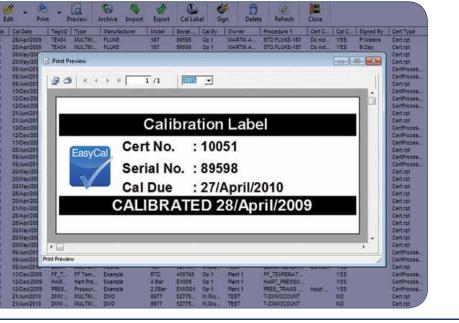


EasyCal Add-Ons and Accessories

Optional enhancements and extras for increased functionality



WebCerts Customer: SGE LTD To reduce the number of certificates listed, enter one or more search critera below: Cal Date Search Cal Date Cert Num Inst ID 10003 WSE768 27/11/2007 DECADE BOX 9885F3 SGE LTD 25/11/2008 SGE LTD 26/11/2008 28/11/2007 MULTIMETE 10005 WSE752 28/11/2007 FREQUENCY GENERATOR BK PRECISION 1585204 SGE LTD 26/11/2008 3003 SGE LTD 26/11/2008 WSE777 28/11/2007 MULTI FUNCTION CALIBRATOR 12W73073 SGE LTD 25/11/2008 0012 WSE784 28/11/2007 MULTIMETER 73303 1500940 SGE LTD 26/11/2008 WSE784 28/11/2007 MULTIMETER 73303 SGE LTD 26/11/2008 0013 28/11/2007 FREQUENCY GENERATOR BK PRECISIO SGE LTD 26/11/2008 0014 WSE752 1585204 0016 WSE777 28/11/2007 MULTI FUNCTION CALIBRATO CA100 12W73073 SGE LTD 26/11/2008 ST74399 29/11/2007 DIGITAL PRESSURE INDICAT GE LTD 27/11/2008 10023 040310735 30/11/2007 MULTIMETER METERMAN 37XR SGE LTD 28/11/2008 040310735 ST74301 03/12/2007 DIGITAL PRESSURE INDICATO RUCK SGE LTD 01/12/2008 0040 MULTIMETER FLUKE 77 III GE LTD 02/12/2008 91G741417 728 04/12/2007 PRESSURE TRANSMITTER EJA110A 916741417 72 SGE LTD 02/12/2008



EasyAdmin

EasyAdmin is an add-on that provides increased security for EasyCal and it's users.

User Rights: A master user sets the user rights for the relative staff and defines log in criteria.

Access Levels: Setting access levels within EasyCal to limit secondary users can be done, safe guarding sensitive information.

Administration: EasyAdmin provides an administration point for calibration instruments, certificate information and user fields.

Predefined Pick-Up Lists: For instrument manufacturers, sub contractors, customer details and other information. These can be created to make EasyCal data entry quick, easy and uniformed.

WebCerts

WebCerts is a web based application that enables EasyCal users to upload and retrieve certificates and reports online.

Simple Upload/Download: Uploading is incorporated into EasyCal by allowing the user to quickly and directly upload to their WebCert folders via FTP.

Secure User Log In: Allows access the user's private folder with their relevant documentation. Ideal for companies with different sites or locations.

Search and Filter: Users can easily locate required data by using the filter tabs or the straightforward search fields.

Hosted Package: Time Electronics also offer a hosted WebCerts package where data is uploaded, stored and retrieved by one of our designated WebCert servers.

EasyCal Accessories

To complement and further optimise the calibration process Time Electronics offer a range of external options.

Printer and Connectivity Kit: Inkjet printer for calibration certificates and reports. Also includes a DVD-RW, 4 port USB hub, numeric key pad and USB memory stick.

Calibration and ID Label Printer: For printing labels to be placed on calibrated units. EasyCal has different layouts for required information to be shown.

Job and Address Label Printer: For printing information that accompanies a unit under test through the calibration process. Also for user tagging instruments.

Bar Code Reader: Enables fast identification of devices in the pre-calibration stage.

PC Communication Options: Interface cables and adaptors providing PC connectivity to Time Electronics calibrators or external instruments.

EasyCal Networking

With networking capabilities a multi-user system can be implemented



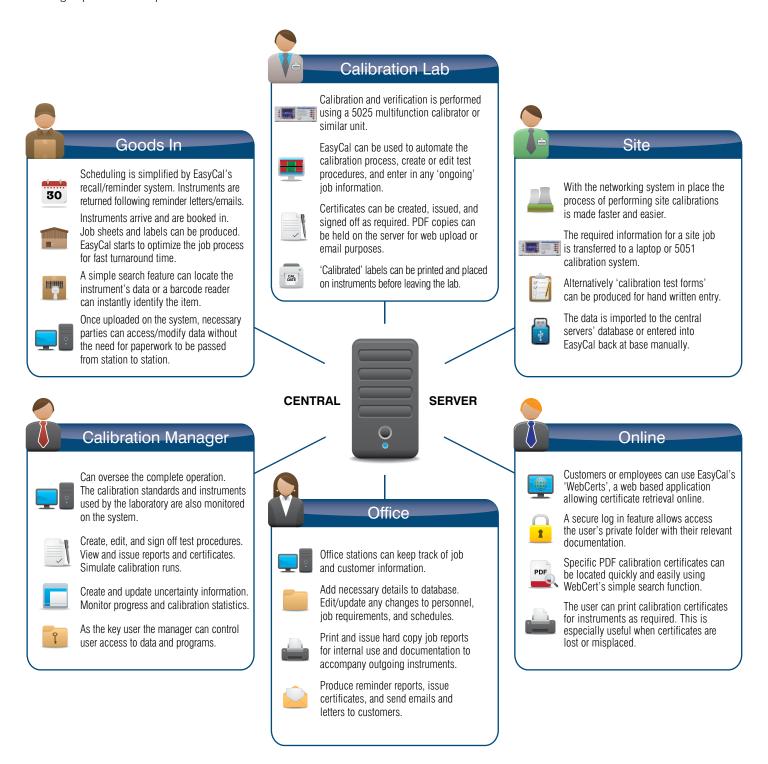
Networking with EasyCal

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 a 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 indentification.

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



CERTIF	Certificate Number DM10005 Page 1 of 3					
Issued By : Time Electronics						
Date of Issue: 20 M				Approved Signatory		
	Time Fleetwee	iaa				
FormCol	Time Electror Unit 11	lics				
EasyCal	Sovereign Way Tonbridge, Kent. TN9 1RH Tel: 01732 355993 Fax: 01732 770312					
				☐ Sig 1 ☐ Sig 2 ☐ Sig 3		
	email: mail@ti	meelectronics.co.uk				
Customer	Cal Systems	3				
Owner .	Cal House		T.1 04900 0000			
	Unit 34 Lock Driv Sevenoaks	re	Tel: 01732 3555 Fax:	DD9		
	Kent		Email: mail@t-	⊉t-e.co.uk		
nstrument	Туре	Process Calibrator				
Device	Manufacturer	Fluke				
	Model Number	725				
	Serial Number	419456				
	ID Number	EC4	Date Received: 20 Ma	ay 2009		
Comments F	ailed on 3.2kOhm M	FLUKE-725-AUTO leasure	Last Cert: 10034			
Enviromental Cond	ailed on 3.2kOhm M	easure				
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Enviromental Conc Temperature: 22.0°C Relative Humidity: 50 Traceability Inform. Instrument Description 5025 Multifunction Calibre AC Current: 0pa.200uA=0.07%+20 AC Voltage: 1mV-20mV=0.05%+25 1.05KV=0.08%+90mV] DC Voltage: 0pv.20mV=100ppm+4 Resistance: 0pa.700uA=0.07%+30 AC Voltage: 1mV-20mV=0.05%+25 1.05KV=0.08%+90mV] DC Current: 0pa.200uA=0.07%+30 AC Voltage: 1mV-20mV=0.05%+25 1.05KV=0.08%+90mV] DC Current: 0pa.200uA=150ppm+10 DC Voltage: 0pv.20mV=100ppm+40	ailed on 3.2kOhm M ditions ±4.0°C 0% ±10% ation Serial No ator 1089G08 100A 200uA-2mA=0.05%+300nA 10uV 20mV-200mV=30ppm+6uV 2 100A 200uA-2mA=0.05%+300nA 10uV 20mV-20mV=30pm+6uV 2 10nA 200uA-2mA=0.05%+300nA 10uV 20mV-20mV=30ppm+6uV 2	Cert No	y Voltage: 230V ±2V @ 5 Cal Date 08 May 2009 0mA-2A=0.1%+0.5mA 2A-20A=0.2%+5mA 2V-20V=0.03%+3mV (45Hz-10kHz) 20V-20(4 200mA-2A-250ppm+40uA 2A-20A=600p V=30ppm+6mV 200V-1.05kV=50ppm+00mD 1 9 May 2009 19 May 2009 0mA-2A=0.1%+0.5mA 2A-20A=0.2%+5mA 2V-20V=0.03%+3mV (45Hz-10kHz) 20V-20(4 200mA-2A=250ppm+40uA 2A-20A=600p V=30ppm+6mV 200V-1.05kV=50ppm+30m	Cal Due 07 May 2010		
Enviromental Conc Temperature: 22.0°C Relative Humidity: 50 Traceability Inform. Instrument Description S025 Multifunction Calibra AC Current: 0pA-200uA=0.07%+20 AC Voltage: 1mV-20mV=0.05%+25 AC Voltage: 1mV-20mV=100ppm+4 CO Voltage: 0pV-20mV=100ppm+4 CO Voltage: 0pV-20mV=100ppm+4 CO Voltage: 1mV-20mV=0.05%+25 AC Voltage: 1mV-20mV=0.05%+25 AC Voltage: 1mV-20mV=100pm+4 CO Voltage: 1mV-20mV=100pm+4 CO Voltage: 1mV-20mV=100pm+4 CO Voltage: 1mV-20mV=100pm+4 CO Voltage: 0pV-20mV=100ppm+4 CO Voltage: 0pV-20mV=100ppm+4	ailed on 3.2kOhm M ditions ±4.0°C 0% ±10% ation Serial No ator 1089G08 100A 200uA-2mA=0.05%+300nA 10uV 20mV-200mV=30ppm+6uV 2 100A 200uA-2mA=0.05%+300nA 10uV 20mV-20mV=30pm+6uV 2 10nA 200uA-2mA=0.05%+300nA 10uV 20mV-20mV=30ppm+6uV 2	Cert No	y Voltage: 230V ±2V @ 5 Cal Date 08 May 2009 0mA-2A=0.1%+0.5mA 2A-20A=0.2%+5mA 2V-20V=0.03%+3mV (45Hz-10kHz) 20V-20(4 200mA-2A-250ppm+40uA 2A-20A=600p V=30ppm+6mV 200V-1.05kV=50ppm+00mD 1 9 May 2009 19 May 2009 0mA-2A=0.1%+0.5mA 2A-20A=0.2%+5mA 2V-20V=0.03%+3mV (45Hz-10kHz) 20V-20(4 200mA-2A=250ppm+40uA 2A-20A=600p V=30ppm+6mV 200V-1.05kV=50ppm+30m	Cal Due 07 May 2010		
Enviromental Conc Temperature: 22.0°C Relative Humidity: 50 Traceability Inform. Instrument Description S025 Multifunction Calibra AC Current: 0pA-200uA=0.07%+20 AC Voltage: 1mV-20mV=0.05%+25 AC Voltage: 1mV-20mV=100ppm+4 CO Voltage: 0pV-20mV=100ppm+4 CO Voltage: 0pV-20mV=100ppm+4 CO Voltage: 1mV-20mV=0.05%+25 AC Voltage: 1mV-20mV=0.05%+25 AC Voltage: 1mV-20mV=100pm+4 CO Voltage: 1mV-20mV=100pm+4 CO Voltage: 1mV-20mV=100pm+4 CO Voltage: 1mV-20mV=100pm+4 CO Voltage: 0pV-20mV=100ppm+4 CO Voltage: 0pV-20mV=100ppm+4	ailed on 3.2kOhm M ditions ±4.0°C 0% ±10% ation Serial No ator 1089G08 100A 200uA-2mA=0.05%+300nA 10uV 20mV-200mV=30ppm+6uV 2 100A 200uA-2mA=0.05%+300nA 10uV 20mV-20mV=30pm+6uV 2 10nA 200uA-2mA=0.05%+300nA 10uV 20mV-20mV=30ppm+6uV 2	Cert No	y Voltage: 230V ±2V @ 5 Cal Date 08 May 2009 0mA-2A=0.1%+0.5mA 2A-20A=0.2%+5mA 2V-20V=0.03%+3mV (45Hz-10kHz) 20V-20(4 200mA-2A-250ppm+40uA 2A-20A=600p V=30ppm+6mV 200V-1.05kV=50ppm+00mD 1 9 May 2009 19 May 2009 0mA-2A=0.1%+0.5mA 2A-20A=0.2%+5mA 2V-20V=0.03%+3mV (45Hz-10kHz) 20V-20(4 200mA-2A=250ppm+40uA 2A-20A=600p V=30ppm+6mV 200V-1.05kV=50ppm+30m	Cal Due 07 May 2010		
Enviromental Conc Temperature: 22.0°C Relative Humidity: 50 Traceability Inform. Instrument Description S025 Multifunction Calibra AC Current: 0pA-200uA=0.07%+20 AC Voltage: 1mV-20mV=0.05%+25 AC Voltage: 1mV-20mV=100ppm+4 CO Voltage: 0pV-20mV=100ppm+4 CO Voltage: 0pV-20mV=100ppm+4 CO Voltage: 1mV-20mV=0.05%+25 AC Voltage: 1mV-20mV=0.05%+25 AC Voltage: 1mV-20mV=100pm+4 CO Voltage: 1mV-20mV=100pm+4 CO Voltage: 1mV-20mV=100pm+4 CO Voltage: 1mV-20mV=100pm+4 CO Voltage: 0pV-20mV=100ppm+4 CO Voltage: 0pV-20mV=100ppm+4	ailed on 3.2kOhm M ditions ±4.0°C 0% ±10% ation Serial No ator 1089G08 100A 200uA-2mA=0.05%+300nA 10uV 20mV-200mV=30ppm+6uV 2 100A 200uA-2mA=0.05%+300nA 10uV 20mV-20mV=30pm+6uV 2 10nA 200uA-2mA=0.05%+300nA 10uV 20mV-20mV=30ppm+6uV 2	Cert No	y Voltage: 230V ±2V @ 5 Cal Date 08 May 2009 0mA-2A=0.1%+0.5mA 2A-20A=0.2%+5mA 2V-20V=0.03%+3mV (45Hz-10kHz) 20V-20(4 200mA-2A-250ppm+40uA 2A-20A=600p V=30ppm+6mV 200V-1.05kV=50ppm+00mD 1 9 May 2009 19 May 2009 0mA-2A=0.1%+0.5mA 2A-20A=0.2%+5mA 2V-20V=0.03%+3mV (45Hz-10kHz) 20V-20(4 200mA-2A=250ppm+40uA 2A-20A=600p V=30ppm+6mV 200V-1.05kV=50ppm+30m	Cal Due 07 May 2010		
Enviromental Conc Temperature: 22.0°C Relative Humidity: 50 Traceability Inform. Instrument Description S025 Multifunction Calibra AC Current: 0pA-200uA=0.07%+20 AC Voltage: 1mV-20mV=0.05%+25 AC Voltage: 1mV-20mV=100ppm+4 CO Voltage: 0pV-20mV=100ppm+4 CO Voltage: 0pV-20mV=100ppm+4 CO Voltage: 1mV-20mV=0.05%+25 AC Voltage: 1mV-20mV=0.05%+25 AC Voltage: 1mV-20mV=100pm+4 CO Voltage: 1mV-20mV=100pm+4 CO Voltage: 1mV-20mV=100pm+4 CO Voltage: 1mV-20mV=100pm+4 CO Voltage: 0pV-20mV=100ppm+4 CO Voltage: 0pV-20mV=100ppm+4	ailed on 3.2kOhm M ditions ±4.0°C 0% ±10% ation Serial No ator 1089G08 100A 200uA-2mA=0.05%+300nA 10uV 20mV-200mV=30ppm+6uV 2 100A 200uA-2mA=0.05%+300nA 10uV 20mV-20mV=30pm+6uV 2 10nA 200uA-2mA=0.05%+300nA 10uV 20mV-20mV=30ppm+6uV 2	Cert No	y Voltage: 230V ±2V @ 5 Cal Date 08 May 2009 0mA-2A=0.1%+0.5mA 2A-20A=0.2%+5mA 2V-20V=0.03%+3mV (45Hz-10kHz) 20V-20(4 200mA-2A-250ppm+40uA 2A-20A=600p V=30ppm+6mV 200V-1.05kV=50ppm+00mD 1 9 May 2009 19 May 2009 0mA-2A=0.1%+0.5mA 2A-20A=0.2%+5mA 2V-20V=0.03%+3mV (45Hz-10kHz) 20V-20(4 200mA-2A=250ppm+40uA 2A-20A=600p V=30ppm+6mV 200V-1.05kV=50ppm+30m	Cal Due 07 May 2010		
Enviromental Conc Temperature: 22.0°C Relative Humidity: 50 Traceability Inform. Instrument Description S025 Multifunction Calibra AC Current: 0pA-200uA=0.07%+20 AC Voltage: 1mV-20mV=0.05%+25 AC Voltage: 1mV-20mV=100ppm+4 CO Voltage: 0pV-20mV=100ppm+4 CO Voltage: 0pV-20mV=100ppm+4 CO Voltage: 1mV-20mV=0.05%+25 AC Voltage: 1mV-20mV=0.05%+25 AC Voltage: 1mV-20mV=100pm+4 CO Voltage: 1mV-20mV=100pm+4 CO Voltage: 1mV-20mV=100pm+4 CO Voltage: 1mV-20mV=100pm+4 CO Voltage: 0pV-20mV=100ppm+4 CO Voltage: 0pV-20mV=100ppm+4	ailed on 3.2kOhm M ditions ±4.0°C 0% ±10% ation Serial No ator 1089G08 100A 200uA-2mA=0.05%+300nA 10uV 20mV-200mV=30ppm+6uV 2 100A 200uA-2mA=0.05%+300nA 10uV 20mV-20mV=30pm+6uV 2 10nA 200uA-2mA=0.05%+300nA 10uV 20mV-20mV=30ppm+6uV 2	Cert No	y Voltage: 230V ±2V @ 5 Cal Date 08 May 2009 0mA-2A=0.1%+0.5mA 2A-20A=0.2%+5mA 2V-20V=0.03%+3mV (45Hz-10kHz) 20V-20(4 200mA-2A-250ppm+40uA 2A-20A=600p V=30ppm+6mV 200V-1.05kV=50ppm+00mD 1 9 May 2009 19 May 2009 0mA-2A=0.1%+0.5mA 2A-20A=0.2%+5mA 2V-20V=0.03%+3mV (45Hz-10kHz) 20V-20(4 200mA-2A=250ppm+40uA 2A-20A=600p V=30ppm+6mV 200V-1.05kV=50ppm+30m	Cal Due 07 May 2010		
Enviromental Conc Temperature: 22.0°C Relative Humidity: 50 Fraceability Inform. Instrument Description S025 Multifunction Calibra S025 Multifunction S047 Not Current: 0pA-200uA=160ppm+ S047 Digital Multimeter Californet: 0pA-200uA=0.05%+255 S05 Voltage: 0pV-20mV=100ppm+4 S047 S047 Not Current: 0pA-200uA=160ppm+ S047 Covoltage: 0pV-20mV=100ppm+4 S047 S047 Not Covoltage: 0pV-20mV=100ppm+4	ailed on 3.2kOhm M ditions ±4.0°C 0% ±10% ation Serial No ator 1089G08 100A 200uA-2mA=0.05%+300nA 10uV 20mV-200mV=30ppm+6uV 2 100A 200uA-2mA=0.05%+300nA 10uV 20mV-20mV=30pm+6uV 2 10nA 200uA-2mA=0.05%+300nA 10uV 20mV-20mV=30ppm+6uV 2	Cert No	y Voltage: 230V ±2V @ 5 Cal Date 08 May 2009 0mA-2A=0.1%+0.5mA 2A-20A=0.2%+5mA 2V-20V=0.03%+3mV (45Hz-10kHz) 20V-20(4 200mA-2A-250ppm+40uA 2A-20A=600p V=30ppm+6mV 200V-1.05kV=50ppm+00mD 1 9 May 2009 19 May 2009 0mA-2A=0.1%+0.5mA 2A-20A=0.2%+5mA 2V-20V=0.03%+3mV (45Hz-10kHz) 20V-20(4 200mA-2A=250ppm+40uA 2A-20A=600p V=30ppm+6mV 200V-1.05kV=50ppm+30m	Cal Due 07 May 2010		
Enviromental Conc Temperature: 22.0°C Relative Humidity: 50 Traceability Inform. Instrument Description S025 Multifunction Calibre AC Current: 0pA.200uA=0.07%+20 LOSKV=0.08%+90M*1 CC Voltage: 1mV-20mV=0.05%+25 LOSKV=0.08%+90M*1 S075 Digital Multimeter AC Current: 0pA.200uA=0.07%+30 AC Voltage: 1mV-20mV=0.05%+25 LOSKV=0.08%+90MV] DC Current: 0pA.200uA=160ppm+3 COVOITAGE: 0pA.200uA=160ppm+3 CC Voltage: 1mV-20mV=100ppm+4 CC Voltage: 0pA.200uA=160ppm+3	ailed on 3.2kOhm M ditions ±4.0°C 0% ±10% ation Serial No 100A 200uA-2mA=0.05%+300nA 00v1/20mV-200mV=0.04%+150uV 15nA 200uA-2mA=0.05%+300nA 00v1/20mV-200mV=0.04%+150uV 15nA 200uA-2mA=0.05%+300nA 00v1/20mV-200mV=0.04%+150uV 15nA 200uA-2mA=0.05%+300nA 00v1/20mV-200mV=0.04%+150uV 15nA 200uA-2mA=100ppm+40n 14v1/20mV-200mV=30ppm+6uV 2 001002-1kΩ=0.01%+5mΩ 1kΩ-10	Cert No	y Voltage: 230V ±2V @ 5 Cal Date 08 May 2009 0mA-2A=0.1%+0.5mA 2A-20A=0.2%+5mA V-20V=0.03%+3mV (96H±2-10kH±2)/20V-20V-0.05%+3mV (96H±2-10kH±2)/20V-20V-0.05%+3mV (96H±2-10kH±2)/20V-20V-0.03%+3mV (45H±-10kH±2)/20V-20V-0.03%+3mV (45H±-10kH±2)/20V-20V-0.03%+3mV (45H±-10kH±2)/20V-20V-0.03%+3mV (45H±-10kH±2)/20V-20V-0.03%+3mV (45H±-10kH±2)/20V-20V-0.05%+5mV-0.01%+10Ω 1MΩ-10MΩ=0.02%+100mΩ 1	Cal Due 07 May 2010		





CERTIFICATE OF CALIBRATION

Issued By: Time Electronics

Date of Issue: 20 May 2009

Certificate Number DM10005

Page 2 of 3

Test Name	Rqd Value	Actual Value	Allowed Error	% of Spec	Pass/Fai	
UPPER DISPLAY						
Voltage Measure						
0V DC	0.000V	0.000V	±0.002V	0%	Pass	
15V DC	15.000V	14.997V	±0.005V	-60%	Pass	
20V DC	20.000V	19.997V	±0.006V	-50%	Pass	
30V DC	30.000V	29.997V	±0.008V	-38%	Pass	
mA Measure						
4mA	4.000mA	4.000mA	±0.003mA	0%	Pass	
12mA	12.000mA	11.999mA	±0.005mA	-20%	Pass	
24mA	24.000mA	23.994mA	±0.007mA	-86%	Pass	
LOWER DISPLAY						
mV/TC Measure						
0mV DC	0.00mV	0.01mV	±0.02mV	50%	Pass	
45mV DC	45.00mV	45.00mV	±0.03mV	0%	Pass	
90mV DC	90.00mV	89.99mV	±0.04mV	-25%	Pass	
Voltage Measure						
0V DC	0.000V	0.000V	±0.002V	0%	Pass	
10V DC	10.000V	9.999V	±0.004V	-25%	Pass	
20V DC	20.000V	19.998V	±0.006V	-33%	Pass	
Freqency Measure						
10kHz	10.00kHz	10.00kHz	±0.02kHz	0%	Pass	
mA Measure						
4mA	4.000mA	4.000mA	±0.003mA	0%	Pass	
12mA	12.000mA	12.000mA	±0.005mA	0%	Pass	
24mA	24.000mA	23.997mA	±0.007mA	-43%	Pass	
Thermocouple Meas	sure					
CJC Value	25.00°C	23.40°C	±5°C	-32%	Pass	
0°C	0.00°C	-0.20°C	±0.7°C	-29%	Pass	
Resistance 4 Wire N	leasure					
15Ω	15.00Ω	15.00Ω	±0.1Ω	0%	Pass	
350Ω	350.00Ω	349.90Ω	±0.1Ω	-100%	Marginal	
500Ω	500.0Ω	500.0Ω	±0.5Ω	0%	Pass	
1500Ω	1500.0Ω	1499.8Ω	±0.5Ω	-40%	Pass	
3200Ω	3200.0Ω	3198.7Ω	±1Ω	-130%	Fail	
Resistance/RTD 3 W	/ire Measure					
350Ω	350.00Ω	350.02Ω	±0.1Ω	20%	Pass	

Cert.rpt v8.1

This certificate has been produced by EasyCal Calibration Software from Time Electronics Ltd

CERTIFICATE OF CALIBRATION

Certificate Number DM10005

Issued By: Time Electronics

Date of Issue: 20 May 2009

Page 3 of 3

Test Name	Rqd Value	Actual Value	Allowed Error	% of Spec	Pass/Fail
Voltage Source					
0V	0.0000V	0.0000V	±0.002V	1%	Pass
5V	5.0000V	5.0001V	±0.003V	5%	Pass
10V	10.0000V	10.0005V	±0.004V	12%	Pass
mV Source					
0mV	0.000mV	0.002mV	±0.02mV	10%	Pass
45mV	45.000mV	44.996mV	±0.03mV	-14%	Pass
100mV	100.000mV	99.997mV	±0.04mV	-8%	Pass
Frequency Source					
10kHz	10.0000kHz	10.0000kHz	±0.025kHz	0%	Pass
mA Source					
4mA	4.0000mA	4.0004mA	±0.0028mA	13%	Pass
12mA	12.0000mA	11.9996mA	±0.0044mA	-9%	Pass
24mA	24.0000mA	23.9989mA	±0.0068mA	-16%	Pass
Ohms Source					
15Ω	15.0Ω	15.0Ω	±0.1Ω	15%	Pass
360Ω	360.0Ω	360.0Ω	±0.1Ω	23%	Pass
500Ω	500.0Ω	500.2Ω	±0.5Ω	30%	Pass
Thermocouple Source					
Cold Junction Value	-25.00°C	-23.83°C	±5°C	-23%	Pass
0°C	0.00°C	0.12°C	±0.7°C	17%	Pass
180°C	180.00°C	180.19°C	±0.7°C	28%	Pass
-180°C	-180.00°C	-179.46°C	±0.7°C	-77%	Pass

Comments

Cert.rpt v8.

 ${\it This certificate has been produced by EasyCal\ Calibration\ Software\ from\ Time\ Electronics\ Ltd}$





CALIBRATION REPORT

Page 1 of 1

Issued By: Laboratory

Certificate Number: 10060

Device Information

Device TAG / ID: TMP_TX
Type: Temperature Transmitter
Model: Example 0-150°C 4-20mA
Serial Number: 09091789
Location:AREA 996

Procedure Information

Procedure:TMP-TX Input Range:0.00 to 150.00°C Output Range:4.00 to 20.00mA Reject Error >:0.50% of Range **Calibration Information**

Calibration Date : 08 May 2011 Due Date: 06 May 2012 (52wks) Temperature: 22.0°C Relative Humidity: 50%

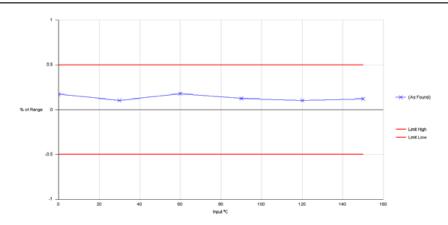
Comments:

Calibrator Information

Description 5051+ (DMM mode) Temperature Standard Serial No. 1039C11 Example Cert No. 0313989 Example Cal Date 12 Apr 2011 12 Apr 2011 Cal Due 10 Apr 2012 09 Apr 2013

Results:

Test Point	Input Temperature	Nominal Output	Actual Output	Allowed Error	% of Range	Pass/Fail
0%	0.00°C	4.00mA	4.03mA	±0.1mA	0.1725%	Pass
20%	30.00°C	7.20mA	7.22mA	±0.1mA	0.1035%	Pass
40%	60.00°C	10.40mA	10.44mA	±0.1mA	0.1800%	Pass
60%	90.00°C	13.60mA	13.62mA	±0.1mA	0.1242%	Pass
80%	120.00°C	16.80mA	16.82mA	±0.1mA	0.1031%	Pass
100%	150.00°C	20.00mA	20.02mA	±0.1mA	0.1205%	Pass
End Of Results						



Comments:

Calibrated by: Op 1

Aprroved By:Sig 3
Aprroved Date:16-May-2011

Signed:

DeviceCert.rpt v1.5

This certificate has been produced by EasyCal Calibration Software from Time Electronics Ltd



Job No. EC2/131107

Ident: EC2

Status: WAITING INFO
Date Recieved: 13-Nov-07

Type: Multimeter

Model: 87

Ser No.: 12345

Service Rq'd: RE-CALIBRATION

MARTIN ANDREWS

Cal Systems Ltd

Returned with

Packing

Battery





ID: 2599 Serial: 77460532



DO NOT REMOVE

Laboratory



Cert No. : 10001 Serial No. : 52775/8V Cal Due : 10/June/2010

CALIBRATED 11/June/2009

ID: TE401

S/N: 52775/8V



DO NOT REMOVE

EasyCal Ordering Information

Licensing details, add-ons, and EasyCal accessory codes

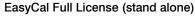


Primary Licenses









Full CalStation and Work Station license with 1 year support.

Order Code: ECFL







EasyCal Full License when purchased with multifunction calibrator/DMM

Discounted Full CalStation and Work Station license with 1 year support.

Order Code: ECFLA

Extra User License Options







EasyCal Full License - Secondary Users

Combined CalStation and Work Station license for existing users.

Order Code: EC2FL





Additional EasyCal Work Station License

Allows Job Management, Cal Due Instrument Attachments / Cert History,

Batch Instrument Edit and Procedure Wizards.

Order Code: EC2WL





Additional EasyCal CalStation License

Maximum calibration features, limited Work Station features.

Order Code: EC2CL

Add-Ons



x 2

EasyAdmin - 2 Users

Security add-on that enables setting of user rights, access levels, and more.

Order Code: EAD2



x5

EasyAdmin - 5 Users

Security add-on that enables setting of user rights, access levels, and more.

Order Code: EAD5



x 10

EasyAdmin - 10 Users

Security add-on that enables setting of user rights, access levels, and more.

Order Code: EAD10





WebCerts

Online application enabling upload and retrieval of certificates and reports

Order Code: EWC







WebCerts - Hosted by Time Electronics

Online application enabling upload and retrieval of certificates and reports.

Order Code: EWCTE

Hardware Options and Support Packages

Bar Code Reader
Cal and ID Label Printer
Job and Address Label Printer
PCI - GPIB interface card
USB - GPIB Adaptor
GPIB Cable
RS232 Cable
USB - RS232 Interface
EasyCal Support Package 1: 1 year email & telephone support. Minor Upgrades.
EasyCal Support Package 2: 2 year email & telephone support. Minor Upgrades.
EasyCal Online Training (Via Remote Desktop).



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