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EL-GFX-DTC

Dual Channel K, J & T-type Thermocouple Data Logger with Graphic Screen

- Compatible with K, J and T-type thermocouples with miniature thermocouple plug connections
- Stores over 250,000 readings
- EasyLog software available as a free download
- Logging rates between 2 seconds and 1 hour
- Supplied with a pair of 1.5m K-type thermocouples with 0 to 200°C (32 to 392°F) measurement range
- On-screen graphing, and menu options to start, stop, review and restart the logger in the field
- Immediate, delayed, push-button or temperature triggered start mode



This standalone data logger measures and stores more than 250,000 temperature readings from two K, J or T-type thermocouple probes at a resolution of 0.1°C (0.2°F). It comes supplied with two K-type thermocouples capable of measuring from 0 to 200°C (32 to 392°F).

Your application will determine which probe is most suitable based on temperature range, accuracy, form and price. A wide variety of alternative thermocouples are available. Please call Lascar for vendor recommendations.

The user can easily set up the logger and view downloaded data by plugging the data logger into a PC's USB port and using the free EasyLog software. Data can then be graphed, printed and exported to other applications for detailed analysis.

The data logger features a high contrast dot-matrix LCD and three buttons to navigate through an on-screen menu. This menu provides the user with access to real-time trend analysis, data summaries and the ability to start, stop and restart the data logger without the need to connect the data logger to the host PC. Users can reset the maximum / minimum reading using the on-screen menu; this introduces an 'event marker' into the data which can later be viewed in the graphing software ('Mark Events' option) and the data file after download.

The data logger is supplied complete with two lithium metal batteries, which can typically allow logging for up to 1 year.

SPECIFICATIONS

Probe measurement range	
K-type (supplied)	0 to 200°C (32 to 392°F)
K-type	-200 to 1350°C (-328 to 2462°F)
J-type	-200 to 1190°C (-328 to 2174°F)
T-type	-200 to 390°C (-328 to 734°F)
Accuracy (logger error)	±1.5°C (±2.7°F)
Internal resolution	0.1°C (0.2°F)
Logging rate	User selectable between 2 seconds & 1 hour
Operating temperature range	-10 to +40°C (+14 to +104°F) (data logger only)
Battery Life	1 year (at 25°C, 1 minute logging rate, LCD off)
Readings	252,928
Dimensions	102 x 48.5 x 30.5mm (4.01" x 1.90" x 1.20")

ACCESSORIES

BAT 3V6 1/2AA	Replacement battery (2 required)
EL-P-TC-K	Replacement K-type thermocouple probe

INCLUDED IN THE BOX

x2 BAT 3V6 1/2AA	Battery
CABLE USB A-MICRO B	USB cable
x2 EL-P-TC-K	K-type thermocouple probe
EL-GFX WALL BRACKET	Magnetic mounting bracket

CALIBRATION CERTIFICATES NOW AVAILABLE

Lascar now offers a Traceable Calibration Certificate Service on Temperature Data Loggers. Using reference equipment which has been calibrated by a UKAS/NIST accredited laboratory and using apparatus traceable to national or international standards. For more information please see **www.lascarelectronics.com**.

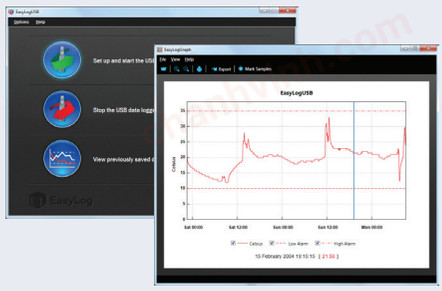
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EASYLOG SOFTWARE

Lascar's EasyLog control software is available as a free download from www.easylogusb.com. Easy to install and use, the control software is compatible with 32-bit and 64-bit versions of Windows 7, 8 and 10. The software is used to set up the logger, download, graph and annotate data or export in Excel, PDF and jpeg formats.

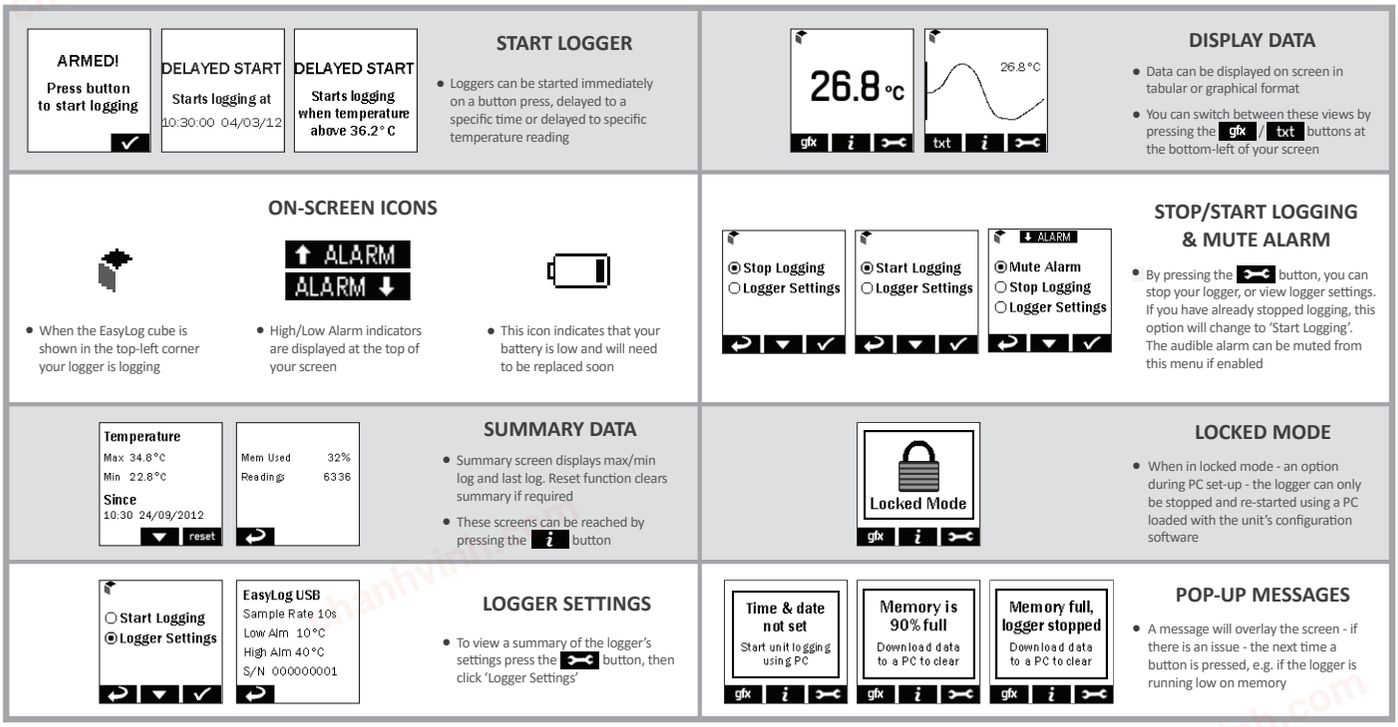


The software allows the following parameters to be configured:

- Logger name
- Measurement parameter (°C or °F)
- Logging rate (selectable between 1 second and 12 hours)
- High and low alarms
- Immediate and delayed logging start

Download the latest version of the software free of charge from www.easylogusb.com

MENU BUTTON FUNCTIONS AND LCD SCREEN INDICATION



Please note that screens may vary slightly depending on model.

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PROBE ISOLATION

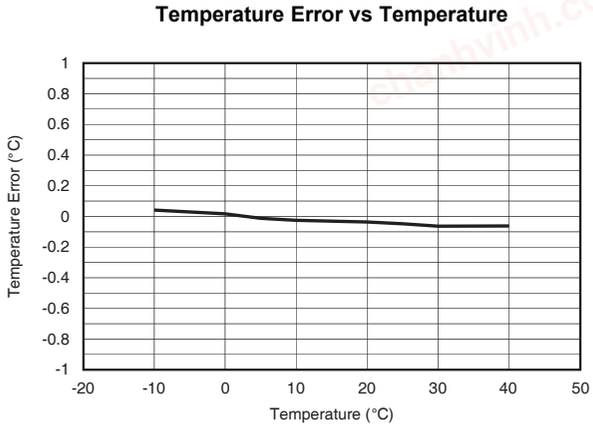
The K-Type thermocouple probes supplied with the EL-GFX-DTC are not electrically isolated from the thermocouple junction, to give a faster response.

Depending upon application it may be necessary to use electrically isolated thermocouple probes to avoid ground loops, and/or situations where the probes may come into contact with conductors that are at different electrical potentials.

Where doubt exists Lascar recommends that electrically isolated probes are used.

INTERNAL TEMPERATURE ACCURACY

The EL-GFX-DTC has the option to log temperature using an internal sensor. This is selectable using the EasyLog software. The internal sensor can measure temperature readings over a -30 to +80°C (-22 to +176°F) range, at a resolution of 0.1°C (0.2°F).



BATTERY INFORMATION

Replacement

We recommend that you replace the battery every year, or prior to logging critical data. Only use 3.6V ½AA lithium batteries. The data logger does not lose its stored readings when the battery is discharged or replaced; however, the data logging process will stop and will not resume until the battery is replaced and the logger restarted by EasyLog software.

Before replacing the battery, remove the data logger from the PC. Please note that leaving the data logger plugged into the USB port for extended periods will cause some of the battery capacity to be lost.

Passivation

If left unused for extended periods of time lithium batteries, including those used in the EasyLog range of data loggers, naturally form a non-conductive internal layer, preventing them from self-discharge and effectively increasing their shelf life. When first installed in the data logger, this may cause a momentary drop in the battery voltage (the Transient Minimum Voltage) as the internal layer is broken down, resulting in the data logger resetting. Inserting the batteries in the data logger and leaving it connected to a PC for about 30 seconds will remove this layer. After this, remove and re-install the batteries to reset the data logger. Overall battery life will not be affected.

WARNING

Handle lithium batteries carefully, observe warnings on battery casing. Dispose of in accordance with local regulations.