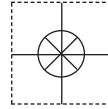


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OM-EL-GFX-1
Temperature Data Logger With Graphic Screen



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It is the policy of OMEGA Engineering, Inc. to comply with all worldwide safety and EMC/EMI regulations that apply. OMEGA is constantly pursuing certification of its products to the European New Approach Directives. OMEGA will add the CE mark to every appropriate device upon certification.

The information contained in this document is believed to be correct, but OMEGA accepts no liability for any errors it contains, and reserves the right to alter specifications without notice.

WARNING: These products are not designed for use in, and should not be used for, human applications.

OM-EL-GFX-1

Temperature Data Logger with Graphic LCD Screen

ORDERING INFORMATION

Standard Data Logger (Data Logger, 2 x Batteries, USB cover, Mounting Clip, Micro USB cable)	OM-EL-GFX-1
Replacement Battery (2 Required)	OM-EL-BATT

FEATURES

- Graphic LCD shows real-time readings, graph and current status
- Stores over 250,000 readings
- Rugged and robust IP67 construction
- -30 to +80 °C (-22 to +176 °F) measurement range
- Logging rates between 10 seconds and 12 hours
- On screen menu and graphing to start, stop, review and restart the logger in the field
- Micro USB interface for PC based set-up and data download
- Immediate, delayed, push-button or temperature triggered start mode
- User-programmable alarm thresholds
- User set audible alarm
- Highly visible confidence/alarm LEDs
- Supplied with user replaceable ½ AA batteries



The OM-EL-GFX-1 standalone USB data logger measures and stores up to 251,928 temperature readings over a -30 to +80°C (22 to +176°F) range and at a resolution of 0.1°C (0.1°F). Using the Windows control software (available as a free-download from www.omega.com), users can quickly set up the data logger and view downloaded data by connecting the device to the PC's USB port using the supplied cable.

The data logger features a high-contrast graphic LCD and three input buttons. This allows users to start, stop and restart the data logger using on-screen menus. This menu also provides real-time analysis of data either as a data summary (showing highest & lowest readings and alarm conditions) or as a graph that updates as new data is added. Multiple data logging sessions can be stored on the device ready for upload to a PC at a later date.

The data logger's robust design provides IP67 waterproof protection and the two replaceable ½AA batteries typically allow logging for up to one year.

Specifications	Minimum	Typical	Maximum	Unit
Measurement range	-30 (-22)		+80 (+176)	°C (°F)
Internal resolution		0.1 (0.1)		°C (°F)
Accuracy (overall error)		±0.1 (±0.2)	±0.5 (±1)	°C (°F)
Logging rate	every 10s		every 1hr	-
Operating temperature range*	-30 (-22)		+80 (+176)	°C (°F)
2 x ½AA 3.6V Lithium Battery Life		1**		Year

* At temperatures below -5 °C the LCD will exhibit slower response times. The LCD will be disabled at temperatures under -20 °C and above 70 °C.

** At 25 °C and 10 minute logging rate with no alarm LEDs or sounder and minimal LCD use.

www.omega.com

OM-EL-GFX-1

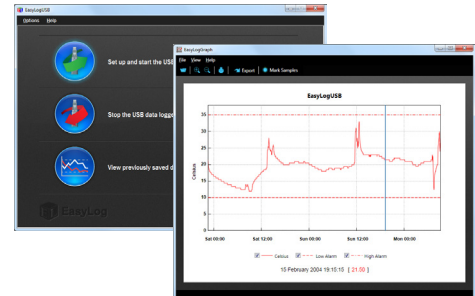
Temperature Data Logger with Graphic LCD Screen

OM-EL-WIN-USB (CONTROL SOFTWARE)

Omega's Easylog USB control software is available to download from www.omega.com. Easy to install and use, the control software runs under Windows XP, Vista and Windows 7. The software is used to set-up the data logger as well as download, graph and export data to Excel. Each stored logging session is saved as a separate file.

The software allows the following parameters to be configured:

- Logger name
- Measurement parameter (°C or °F)
- Logging Rate (user-selectable between 10 seconds and 12 hours)
- High and low temperature alarms
- Immediate, delayed, push-button or temperature triggered start mode
- Disable or enable LEDs and sounder with delayed activation
- Display and backlight behaviour after button press



The latest version of the control software may be downloaded free of charge from www.omega.com

DIMENSIONS

All dimensions in mm (inches)


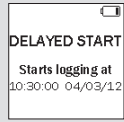




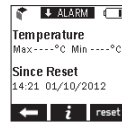

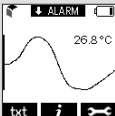



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OM-EL-GFX-1

Temperature Data Logger with Graphic LCD Screen

MENU BUTTON FUNCTIONS AND LED SCREEN INDICATION

 <p>Button</p>	 <p>Time</p>	 <p>Value</p>	<h3>START</h3> <ul style="list-style-type: none">Loggers can be started immediately on a button press, delayed to a specific time or delayed to specific temperature reading	 <p>← ↓ ↑ ✓</p>	<h3>MUTE ALARM</h3> <ul style="list-style-type: none">Audible alarm can be muted if required		
			<h3>STOP</h3> <ul style="list-style-type: none">The logger can be stopped using the buttons  <p>← ↓ ↑ ✓</p>	 <p>← i reset</p>	 <p>← i reset</p>	<h3>SUMMARY DATA</h3> <ul style="list-style-type: none">Summary screen displays max/min log and last log. Reset function clears summary if required	
 <p>txt i</p>			 <p>txt i</p>	<h3>DISPLAY DATA</h3> <ul style="list-style-type: none">Data can be displayed on screen in tabular or graphical format		 <p>txt i</p>	<h3>LOCK MENU BUTTONS</h3> <ul style="list-style-type: none">'Locked' mode can be unticked during PC set-up if requiredWhen in locked mode, the logger can only be stopped and re-started using a PC loaded with the unit's configuration software

BATTERY REPLACEMENT

We recommend that you replace the batteries every 12 months, or prior to logging critical data.

The OM-EL-GFX-1 does not lose its stored readings when the batteries are discharged or when the batteries are replaced; however, the data logging process will be stopped. If the batteries are changed within a 2 minute window the OM-EL-GFX-1 will retain its settings (internal clock and logging mode). This will allow logging to be restarted without additional connection to a PC via USB.

Only use 2 x OM-EL-BATT lithium batteries. Do not mix battery types and do not mix new and old batteries. Before replacing the batteries, unplug the OM-EL-GFX-1 from the PC.

WARNING

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

WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **13 months** from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal **one (1) year product warranty** to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

OMEGA is pleased to offer suggestions on the use of its various products. However, OMEGA neither assumes responsibility for any omissions or errors nor assumes liability for any damages that result from the use of its products in accordance with information provided by OMEGA, either verbal or written. OMEGA warrants only that the parts manufactured by the company will be as specified and free of defects. OMEGA MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, EXCEPT THAT OF TITLE, AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. LIMITATION OF LIABILITY: The remedies of purchaser set forth herein are exclusive, and the total liability of OMEGA with respect to this order, whether based on contract, warranty, negligence, indemnification, strict liability or otherwise, shall not exceed the purchase price of the component upon which liability is based. In no event shall OMEGA be liable for consequential, incidental or special damages.

CONDITIONS: Equipment sold by OMEGA is not intended to be used, nor shall it be used: (1) as a "Basic Component" under 10 CFR 21 (NRC), used in or with any nuclear installation or activity; or (2) in medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical application, used on humans, or misused in any way, OMEGA assumes no responsibility as set forth in our basic WARRANTY/DISCLAIMER language, and, additionally, purchaser will indemnify OMEGA and hold OMEGA harmless from any liability or damage whatsoever arising out of the use of the Product(s) in such a manner.

RETURN REQUESTS/INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR **WARRANTY** RETURNS, please have the following information available BEFORE contacting OMEGA:

1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

FOR **NON-WARRANTY** REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

1. Purchase Order number to cover the COST of the repair,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

OMEGA's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

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