Rechargable Temperature Data Logger with USB Interface

ORDERING INFORMATION

Standard Data Logger (Data Logger, Software on CD and Type A to Mini B USB cable) EL-USB-1-RCG

FEATURES

□-20 to +60°C (-4 to +140°F) measurement range

□Stainless Steel (316 grade) case

□Environmental protection to IP67

□Rechargeable lithium-ion battery

☐Bi-colour status LEDs behind protective glass window

☐Mini-USB interface for set-up and data download

□User programmable alarm thresholds

☐Immediate and delayed start logging

□Supplied with □indows control software and Type A to Mini B USB cable



This standalone data logger measures and stores up to 32,510 temperature readings over a -20 to $+60^{\circ}$ C (-4 to $+140^{\circ}$ F) measurement range. The polycarbonate window and stainless steel 316 assembly provide protection from corrosion, impact and water ingress to IP67 / NEMA $4\Box$ The unit is powered by a lithium-ion rechargeable battery which allows logging for up to 1 month. Setup and downloading is completed by connection the data logger to a PC \Box USB port using the supplied cable and running the purpose designed software under \Box indows 2000, \Box P, Vista and \Box indows 7. Correct functioning of the unit is indicated by \Box ashing red and green LEDs. Downloaded data can then be graphed, printed and exported to other applications.

Specifications	Minimum	Typical	Maximum	Unit
Measurement range	-20 (-4)		+60 (+140)	°C (°F)
Accuracy (overall error)		±1 (2)		°C (°F)
Internal resolution		0.1 (0.2)		°C (°F)
Logging rate	every 1 s		every 12hr	-
Recharging time			5	Hours
Operating temperature range	-20 (-4)		+60 (+140)	°C (°F)
Charging temperature range	+10 (+50)	+20 (+68)	+30 (+86)	°C (°F)
Lithium-ion Battery Life	1*		4**	□eeks

^{*} \sqcup -20°C (-4°F), 1 second logging rate





S.L

^{** ∐20°}C (68°F), 1 minutes logging rate

Rechargable Temperature Data Logger with USB Interface

LED STATUS INDICATION

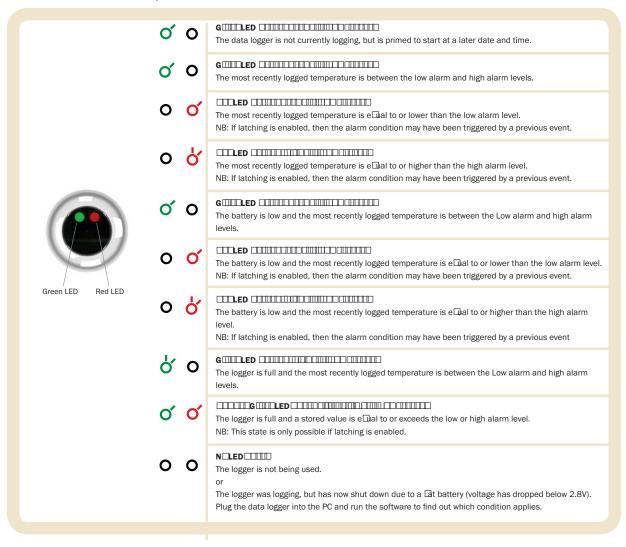
EL-USB-1-RCG features two LEDs that indicate the logging, battery and alarm status:

☐The first LED ☐shes red (R) to indicate that the EL-USB-1-RCG is in an alarm condition. It will ☐sh when the logged temperature has exceeded a Low or High alarm level.

The second LED Tashes green (G) to indicate that the EL-USB-1-RCG is not in an alarm condition. Latching is enabled by default, which forces the logger to continue Tashing the red LED after an alarm, even when the temperature has returned to normal. This feature ensures that the user is notified that an alarm level has been exceeded, without the need to download the data from the logger.

Latching can be turned off via the control software. The red LED will then only ☐sh whilst the logger is in an alarm condition. ☐hen the temperature returns to normal, the green LED will ash.

Additional LED modes are explained below:







S.L

Rechargable Temperature Data Logger with USB Interface

DIMENSIONS

All dimensions in mm (inches)





BATTERY CHARGING

The logger is fitted with a 280mAh capacity (nominal) rechargeable Lithium-Ion battery. The logger must be connected to an active USB port to recharge the battery this may take up to 5 hours, depending on the level of discharge. The battery charge status is indicated by the status LED The red LED indicates that charging is ongoing the green LED indicates that the battery has a full charge.

Like all rechargeable batteries, the fully charged capacity reduces over time. The battery operates best at temperatures of 10° C to 30° C (50° F to 86° F). Recharging should only be performed within this temperature range.

EL-□IN-USB (CONTROL SOFT□ARE)

Lascar ☐ EasyLog USB control software is supplied free of charge with each data logger. Easy to install and use, the control software runs under ☐ Indows 2000, ☐ Vista & 7. The software is used to set-up the data logger as well as download, graph and export data to Excel.

The software allows the following parameters to be configured:

- Logger name (up to 16 characters)
- ∟°C or °F
- ∟ Logging Rate (1s, 10s, 1m, 5m, 30m, 1hr, 6hr, 12hr)
- ∟ High and low alarm levels
- \square Data rollover (Allows unlimited logging periods by over writing the oldest data when the memory is full)

The latest version of the control software may be downloaded free of charge from



S.L









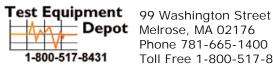
Rechargable Temperature Data Logger with USB Interface

THE EASYLOG USB RANGE

Each EL-USB data logger features the direct-to-USB connection and easy-to-use functionality that the range is known for. The range comprises 14 data loggers as detailed in the following table:

Part No	Function	Range	Accuracy (overall error)		Readings	Batterv	Battery Life*
			Тур.	Max.	ricadings	Dattery	battery Life
EL-USB-1	Temperature	-35 to +80°C (-31 to +176°F)	±1°C (±2°F)		16,382	3.6V ½AA	1 Year
EL-USB-1-PRO	High Temperature	-40 to +125 °C (-40 to +257 °F)	±0.2°C (±0.4°F)	±0.5°C (±1°F)	32,510	3.6V ⅔AA	3 years
EL-USB-1-RCG	Temperature with rechargeable battery	-20 to +60°C (-4 to +140°F)	±1°C (±2°F)		32,510	Lithium Ion	1 month (rechargeable)
EL-USB-2	Temperature, humidity & dew point	-35 to +80°C (-31 to +176°F) 0 to 100%RH	±0.5°C (±1°F) ±3%RH	±2°C (±4°F) ±6.0%RH	16,382	3.6V ½AA	1 year
EL-USB-2+	Increased accuracy temperature, humidity & dew point	-35 to +80°C (-31 to +176°F) 0 to 100%RH	±0.3°C (±0.6°F) ±2.0%RH	±1.5°C (±3°F) ±4.0%RH	16,382	3.6V ½AA	1 year
EL-USB-2-LCD	Temperature, humidity & dew point with LCD	-35 to +80°C (-31 to +176°F) 0 to 100%RH	±0.5°C (±1°F) ±3.0%RH	±2°C (±4°F) ±6.0%RH	16,379	3.6V ½AA	1 year
EL-USB-2-LCD+	Increased accuracy tem- perature, humidity & dew point with LCD	-35 to +80°C (-31 to +176°F) 0 to 100%RH	±0.3°C (±0.6°F) ±2.0%RH	±1.5°C (±3°F) ±4.0%RH	16,379	3.6V ½AA	1 year
EL-USB-3	Voltage	0 to 30V d.c.	±1%		32,510	3.6V ½AA	1 year
EL-USB-4	Current loop	4 to 20mA	±1%		32,510	3.6V 1/2AA	1 year
EL-USB-5	Counter, Event & State	N/A		±3 secs/24 hrs	32,510	3.6V 1/2AA	1 year
EL-USB-TC	Thermocouple (J, K and T-type) K-type probe included	-200 to +1350°C (-328 to +2462°F) (K-type) -200 to +1190°C (-328 to +2174°F) (J-type) -200 to +390°C (-328 to +734°F) (T-type)	±1°C (±2°F)		32,510	3.6V ½AA	6 months
EL-USB-TC-LCD	Thermocouple with LCD (J, K and T-type) K-type probe included	-200 to +11350°C (-328 to +2462°F) (K-type) -200 to +1190°C (-328 to +2174°F) (J-type) -200 to +390°C (-328 to +734°F) (T-type)	±1°C (±2°F)		32,510	3.6V ½AA	6 months
EL-USB-CO	Carbon monoxide	0 to 1000ppm NOT A LIFE SAVING DEVICE	±6ppm		32,510	3.6V 1/2AA	3 months
EL-USB-C0300	Carbon monoxide	0 to 300ppm NOT A LIFE SAVING DEVICE	±4ppm		32,510	3.6V 1/2AA	3 months
EL-USB-LITE	Low cost temperature	-10°C to +50°C (+14 to +122°F)	±1°C (±2°F)		4,080	CR1620 Lithium coin cell	1 month
EL-USB-RT	Real-time temperature & humidity monitor	-20 to +70°C (-4 to +158°F)	±1.5°C (±3°F) ±4.5%RH		7 days	N/A	N/A

^{*}Depending on logging rate, ambient temperature, and use of alarm LED



Depot Melrose, MA 02176 Phone 781-665-1400 Toll Free 1-800-517-8431





