

# EasyLog Data Loggers

## Quick Start Guide



Pour la traduction française, voir le CD  
Para traducción en castellano, vea el CD  
Per la traduzione in italiano, vedere il CD  
Für die deutsche Übersetzung, siehe die CD

For full Installation and Operation Manuals, see the website [www.nieuwkoopbv.nl](http://www.nieuwkoopbv.nl)

# 1

## FIRST INSTALL YOUR BATTERY

EL-USB-1, EL-USB-1-LCD, EL-USB-2, EL-USB-2+, EL-USB-2-LCD, EL-USB-2-LCD+, EL-USB-3, EL-USB-4, EL-USB-5, EL-USB-CO, EL-USB-CO300, EL-USB-TC, EL-USB-TC-LCD

Before using the data logger you will need to insert the 3.6V 1/2AA battery provided, following the instructions below. Replacement batteries available from Nieuwkoop BV, Art.nr. RG7500 PN: BAT 3V6 1/2AA.



### EL-USB-1 PRO

Before using the data logger you will need to insert the 3.6V 2/3AA High Temperature battery provided, following the instructions below. Replacement batteries available from Nieuwkoop BV, Art.nr. RG7500, PN: BAT 3V6 2/3AA H TEMP.



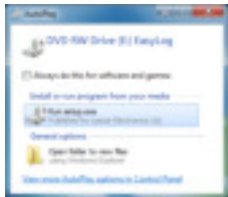
### EL-USB-1-RCG BATTERY IS PREINSTALLED

To charge the battery connect to USB port until green LED shows.

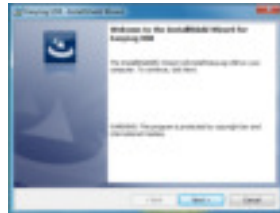
# 2

## THEN INSTALL YOUR SOFTWARE & USB DRIVER

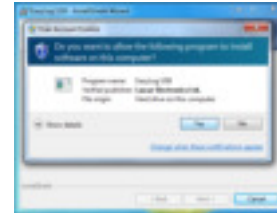
Windows™ 2000/XP/VISTA/7



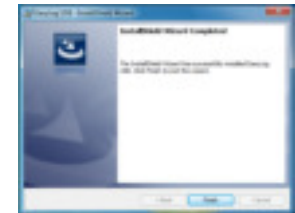
1. Insert the EL-USB-USB CD into the CD drive of your computer. If the CD does not automatically load, navigate to the CD and double click "Setup"



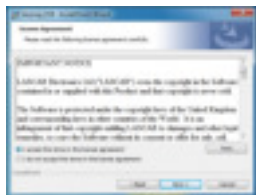
2. Click "Next"



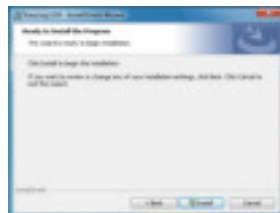
5. Click "Yes"



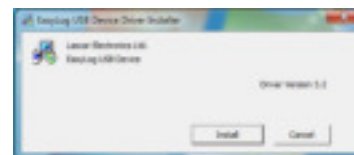
6. Click "Finish"



3. Read the "IMPORTANT NOTICE", select "I agree" and "Next"



4. Click "Install"



7. Click "Install"



8. You have successfully installed the necessary software and driver for your EL-USB data logger. An "EasyLog USB" icon will be placed on your desktop.

# 3

## YOUR DATA LOGGER IS READY FOR USE

- Ensure the battery is correctly installed.
- Insert the data logger into an available USB port on your PC.
- Double click on the EasyLog USB icon on your Windows™ desktop. This will load the configuration software. Setup the data logger for a new log, download a data logger that has been recording, view previously saved data in graph format and check the current status of the attached data logger (including the serial number).
- When setup is complete, the data logger should be removed from the USB port to begin recording. If you would like advice on how best to use the data logger for a particular application, please contact your nearest Lascar representative.
- **Do not leave your data logger in the USB port as this will cause some of the battery capacity to be lost** (with the exception of EL-USB-1-RCG; see '1. First Install Your Battery' for further information).



▪ Set-up, stop or view previously saved data



▪ Name your logger and select a sample rate

## SPECIFICATIONS

Part No	Function	Range	Accuracy (overall error)		Readings	Battery	Battery Life*
			Typ.	Max.			
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-LCD	Temperature with LCD	-35 to +80 °C (-31 to +176 °F)	±0.5°C (±1°F)	±1.5°C (±3°F)	16,382	3.6V ½AA	1 year
EL-USB-1-PRO	Extended Temperature	-40 to +125 °C (-40 to +257 °F)	±0.2°C (±0.4°F)		32,510	3.6V ¾AA	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)	±0.5°C (±1°F)	±2°C (±4°F)	16,382	3.6V ½AA	1 year
		0 to 100%RH	±3%RH	±5.0%RH	16,382		
EL-USB-2+	Increased Accuracy Temperature, Humidity & Dew Point	-35 to +80 °C (-31 to +176 °F)	±0.3°C (±0.6°F)	±1.5°C (±3°F)	16,382	3.6V ½AA	1 year
		0 to 100%RH	±2.0%RH	±4.0%RH	16,382		
EL-USB-2-LCD	Temperature, Humidity and Dew Point with LCD	-35 to +80 °C (-31 to +176 °F)	±0.5°C (±1°F)	±2°C (±4°F)	16,382	3.6V ½AA	1 year
		0 to 100%RH	±3.0%RH	±5.0%RH	16,382		
EL-USB-2-LCD+	Increased Accuracy Temperature, Humidity and Dew Point with LCD	-35 to +80 °C (-31 to +176 °F)	±0.3°C (±0.6°F)	±1.5°C (±3°F)	16,382	3.6V ½AA	1 year
		0 to 100%RH	±2.0%RH	±4.0%RH	16,382		
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 ½AA	1 year
EL-USB-5	Counter, Event & State	N/A		±3 secs/24 hrs	32,510	3.6V ½AA	1 year
EL-USB-CO	Carbon Monoxide	0 to 1000ppm <b>NOT A LIFE SAVING DEVICE</b>	±6ppm		32,510	3.6V ½AA	3 months
EL-USB-CO300	Carbon Monoxide	0 to 300ppm <b>NOT A LIFE SAVING DEVICE</b>	±4ppm		32,510	3.6V ½AA	3 months
EL-USB-TC	Thermocouple (J, K and T-type) K-type probe included	-200 to +1350°C (-328 to +2462°F) (K-type)	±1°C (±2°F)	±2°C (±4°F)	32,510	3.6V ½AA	6 months
		-200 to +1190°C (-328 to +2174°F) (J-type)					
		-200 to +390°C (-328 to +734°F) (T-type)					
EL-USB-TC-LCD	Thermocouple with LCD (J, K and T-type) K-type probe included	-200 to +1350°C (-328 to +2462°F) (K-type)	±1°C (±2°F)	±2°C (±4°F)	32,510	3.6V ½AA	6 months
		-200 to +1190°C (-328 to +2174°F) (J-type)					
		-200 to +390°C (-328 to +734°F) (T-type)					

\*Depending on logging rate, ambient temperature, and use of alarm LED

## LED FLASHING MODES

EL-USB-1	EL-USB-2, EL-USB-2+, EL-USB-2-LCD EL-USB-2-LCD+	EL-USB-1-LCD, EL-USB-1-RCG, EL-USB-3, EL-USB-4, EL-USB-TC & EL-USB-TC-LCD
<ul style="list-style-type: none"> <li> <b>Green double flash</b> Delayed start</li> <li> <b>Red double flash</b> High alarm</li> <li> <b>Orange double/single flash</b> Memory full</li> <li> <b>Green single flash</b> Logging, no alarm</li> <li> <b>Red single flash</b> Low alarm</li> <li> <b>Orange single flash every 60 sec</b> Low battery</li> <li> <b>No LEDs flash</b> Logger stopped or battery empty</li> </ul>	<ul style="list-style-type: none"> <li> <b>Green triple flash</b> Logger full, no alarm on the channel</li> <li> <b>Red triple flash</b> Logger full, alarm on the channel</li> <li> <b>Green double flash</b> Delayed start</li> <li> <b>Green single flash</b> Logging, no alarm</li> <li> <b>Red single flash</b> Logging, low alarm on the channel</li> <li> <b>Red double flash</b> Logging, high alarm on the channel</li> <li> <b>No LEDs flash</b> Logger stopped or battery empty</li> <li> <b>Dual Red Flash</b> Battery low</li> </ul>	<ul style="list-style-type: none"> <li> <b>Green double flash</b> Every 20 seconds: logger full, no alarm</li> <li> <b>Green single flash</b> Every 30 seconds: delayed start Every 20 seconds: low battery, logging, no alarm Every 10 seconds: logging, no alarm</li> <li> <b>Red/Green single flash</b> Every 20 seconds: logger full, last value equal to or exceeds the low or high alarm</li> <li> <b>Red double flash</b> Every 10 seconds: logging, high alarm Every 20 seconds: logging, high alarm, low battery</li> <li> <b>Red single flash</b> Every 10 seconds: logging, low alarm Every 20 seconds: logging, low alarm, low battery</li> <li> <b>No LEDs flash</b> LEDs disabled during configuration to save battery power and increase logging life / logger stopped / battery empty</li> </ul>
<ul style="list-style-type: none"> <li> <b>Green single flash</b> Every 10 seconds: normal logging</li> <li> <b>Green single flash</b> Every 20 seconds: low battery</li> </ul>	<ul style="list-style-type: none"> <li> <b>Green double flash</b> Every 20 seconds: memory full</li> <li> <b>Red single flash</b> Event/State change/Count recorded</li> </ul>	

## LCD INDICATORS

(EL-USB-1-LCD, EL-USB-2-LCD, EL-USB-2-LCD+ AND EL-USB-TC-LCD ONLY)

### DISPLAY AND STATUS FUNCTIONS

EL-USB-1-LCD, EL-USB-2-LCD &  
EL-USB-2-LCD+



\*ELUSB-2-LCD & ELUSB-2-LCD+ only

EL-USB-TC-LCD



### LCD INDICATION

Display	Logger Status	Explanation
ds	Delayed Start	This is shown when the logger is set to start at a specific data and time*
PS	Push to Start	This is shown when the logger is setup for "Push to start" logging
log	Logging	This is shown when the logger is running in "LCD off" mode, and the button is pressed. The display clears again after three seconds
---	Stopped	If the logger has not been set to log and the button is pressed, three dashes are displayed for three seconds

\* If the logger is set to "LCD off" or "LCD on for 30 seconds" mode, then this will only be shown after the button is pressed. Otherwise the display will remain blank.