



# User's Guide



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## OM-EL-WIN-USB

**WINDOWS XP/98/2000  
CONFIGURATION SOFTWARE  
INSTALLATION WITH OPERATIONS GUIDE**

## FOR OM-EL-USB-SERIES DATA LOGGERS

OM-EL-USB-1  
OM-EL-USB-2  
OM-EL-USB-3  
OM-EL-USB-4  
OM-EL-USB-LITE  
OM-EL-USB-TC



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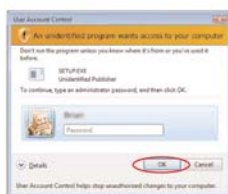
The information contained in this document is believed to be correct, but OMEGA accepts no liability for any errors it contains, and reserves the right to alter specifications without notice.

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

# START HERE

## Windows™ XP/2000/VISTA OM-EL-WIN-USB Configuration Software Installation

**NOTE** - The screen shots on page one of the guide are taken from Windows™ Vista. If you are installing using Windows™ XP or 2000, the screens may look slightly different, however the content will be the same. To install the software you must have administrative privileges on the computer.



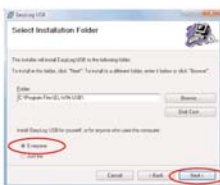
1. Insert the OM-EL-WIN-USB Configuration Software CD into the CD drive of your computer. If the CD does not automatically navigate to the CD and double click "Setup".

2. Installing software requires administrative privileges. Accept the "User Account Control" request, enter password if necessary.



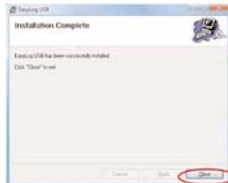
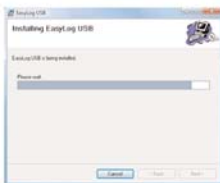
3. Click "Next".

4. Read the "IMPORTANT NOTICE", select "I Agree" and "Next".



5. Select "Everyone", click "Next".

6. Click "Next" to start the Installation.  
**NOTE** - A progress bar will be displayed until the installation is complete.



7. EasyLog USB is being installed.

8. Click "Close". An icon  will now be placed on your desktop.

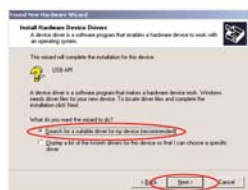
NOTE - Ensure that the OM-EL-WIN-USB Configuration Software CD is in the CD drive throughout this installation.



1. Insert the USB data logger into a USB port on the computer. The following screens should automatically appear. Windows™2000 refers to the data logger as "USB API" until the end of this installation.



2. Click "Next".



3. Select "Search for a suitable driver for my device (recommended)" then click "Next".



4. Select "CD-ROM drivers" only, then click "Next".



5. Click "Next".



6. Windows™2000 now refers to the data logger as the "F32x Express USB Device". Click "Finish".

7. You can now begin using your data logger by clicking the  icon on your computer's desktop.

NOTE - Ensure that the OM-EL-WIN-USB Configuration Software CD is in the CD drive throughout this installation.

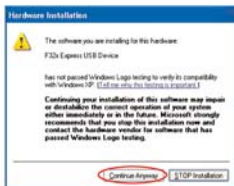


1. Insert the USB data logger into a USB port on the computer. The following screens should automatically appear. Windows™ XP refers to the data logger as "USB API" and "F32x Express USB Device" throughout this installation.



2. Ensure the CD is in the CD drive. Select "Install the software automatically (Recommended)" then click "Next".

NOTE - A screen appears, showing files being copied to your computer.

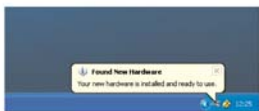


3. When this window appears, click "Continue Anyway"

NOTE - This is a feature of Windows™ XP. Selecting "Continue Anyway" will not cause any adverse changes/effects on your computer.



4. Installation is now complete, click "Finish".



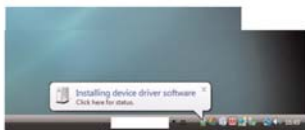
5. The Window will close and you will see the following message.

7. You can now begin using your data logger by clicking the  icon on your computer's desktop.

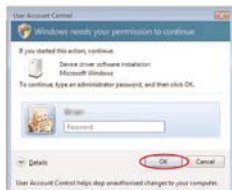
Enabling USB

**NOTE** - To install the USB driver you must have administrative privileges on the computer. Ensure that the OM-EL-WIN-USB Configuration Software CD is in the CD drive throughout this installation.

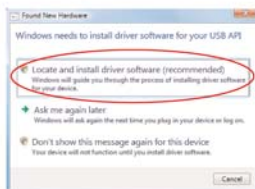
**NOTE** - At various times Vista may ask security questions; allow access when prompted



1. Insert the USB data logger into a USB port on the computer. The following screens should automatically appear.



3. Installing the driver requires administrative privileges. Accept the "User Account Control" request, enter password if necessary.



2. Select "Locate and install driver software (recommended)" then click "Next".



4. The following screen should automatically appear.




5. The above window will appear after a few seconds. Insert the disc that came with your USB Data Logger, then click "Next".



6. When this window appears, click "Install this driver software anyway".  
**NOTE:** This is a feature of Windows Vista. Selecting "Install this software anyway" will not cause any adverse changes/effects on your computer.



7. Install the software by clicking the

clicking the  icon on your computer's desktop.

# OPERATION GUIDE

GUIDE D'OPERATION

GUÍA DE LA OPERACIÓN

GUIDA DI FUNZIONAMENTO

BETRIEBSFUHRER



## OM-EL-USB-1

Red/Green LED  
Diode rouge/verte  
LED Rojo/Verde  
LED rosso/verde  
Rote/Grüne LED



Orange LED  
Diode orange  
LED Naranja  
LED arancione  
Orange LED

Double flash  
Clignotement double

- Logger is primed.  
- L'enregistreur est amorcé.



Single flash  
Clignotement simple

- Logging, no alarm.  
- Enregistrement en cours, pas d'alarme.  
- Registrando, sin alarma.  
- Registrazione in corso, nessun allarme.  
- Zeichnet auf, kein Alarm.

Parpadeo doble  
Lampeggio doppio

- El Registrador está preparado.  
- Il logger viene attivato.

Parpadeo simple  
Lampeggio singolo

Leuchtet zweimal auf

- Logger ist bereit.

Leuchtet einmal auf

Double flash  
Clignotement double  
Parpadeo doble  
Lampeggio doppio  
Leuchtet zweimal auf

- High alarm.  
- Haute alarme.  
- Alarma Alta.  
- Alarma limite max.  
- Alarm wegen Überschreitung.



Single flash  
Clignotement simple  
Parpadeo simple  
Lampeggio singolo  
Leuchtet einmal auf

- Low alarm.  
- Basse alarme.  
- Alarma Baja.  
- Alarma limite min.  
- Alarm wegen Unterschreitung.

Double/Single flash  
Clignotement double/simple  
Parpadeo doble/simple  
Lampeggio singolo/doppio  
Leuchtet zweimal/einmal auf

- Memory full.  
- Mémoire pleine.  
- Memoria llena.  
- Memoria piena.  
- Speicher voll.



Flash every 60 sec.  
Clignotement toutes les 60 sec.  
Parpadeo cada 60 seg.  
Lampeggio ogni 60 sec.  
Leuchtet auf alle 60 Sek.

- Low battery.  
- Batterie faible.  
- Bateria baja.  
- Bateria scarica.  
- Batterie schwach.

## OM-EL-USB-2

Red/Green LED  
Diode rouge/verte  
LED Rojo/Verde  
LED rosso/verde  
Rote/Grüne LED



Red/Green LED  
Diode rouge/verte  
LED Rojo/Verde  
LED rosso/verde  
Rote/Grüne LED

Green triple flash  
Triple clignotement vert  
Parpadeo verde triple  
Lampeggio verde triplo  
Leuchtet dreimal grün auf

- Logger full, no alarm on the channel.  
- Enregistreur plein, pas d'alarme sur la voie.  
- Registrador lleno, sin alarma en el canal.  
- Logger pieno, nessun allarme sul canale.  
- Logger voll, kein Alarm am Kanal.



Green double flash  
Double clignotement vert  
Parpadeo verde doble  
Lampeggio verde doppio  
Leuchtet zweimal grün auf

- Delayed start.  
- Retard au démarrage.  
- Inicio demorado.  
- Avvio ritardato.  
- Verzögerter Start.

Green single flash  
Simple clignotement vert  
Parpadeo verde simple

- Logging, no alarm.  
- Enregistrement en cours, pas d'alarme.  
- Registrando, sin alarma.



Lampeggio verde singolo  
Leuchtet einmal grün auf

- Registrazione in corso, nessun allarme.  
- Aufzeichnung, kein Alarm.

Red Triple flash  
Triple clignotement rouge  
Parpadeo rojo triple  
Lampeggio rosso triplo  
Leuchtet dreimal rot auf

- Logger full, alarm on the channel.  
- Enregistreur plein, alarme sur la voie.  
- Registrador lleno, alarma en el canal.  
- Logger pieno, allarme sul canale.  
- Logger voll, Alarm am Kanal.



Red Double flash  
Double clignotement rouge  
Parpadeo rojo doble  
Lampeggio rosso doppio  
Leuchtet zweimal rot auf

- Logging, high alarm on the channel.  
- Enregistrement en cours, haute alarme sur la voie.  
- Registrando, alarma alta en el canal.  
- Registrazione in corso, allarme limite max. sul canale.  
- Aufzeichnung, Alarm wegen Überschreitung am Kanal.

Red Single flash  
Simple clignotement rouge  
Parpadeo rojo simple

- Logging, low alarm on the channel.  
- Enregistrement en cours, basse alarme sur la voie.  
- Registrando, alarma baja en el canal.



Lampeggio rosso singolo  
Leuchtet einmal rot auf

- Registrazione in corso, allarme limite min. sul canale.  
- Aufzeichnung, Alarm wegen Unterschreitung am Kanal.

No LEDs flash  
Pas de clignotements

- Logger stopped or battery empty.  
- Enregistreur arrêté ou



Nessun LED lampeggiante  
Kein Aufleuchten der LEDs

- Logger arrestato o batteria scarica.  
- Logger gestoppt oder Batterie leer.

Ningun LED parpadando

Ningun LED parpadando



## OM-EL-USB-3, OM-EL-USB-4 & OM-EL-USB-TC

Green LED  
Diode verte  
LED Verde  
LED verde  
Grüne LED



**Green double flash**

**Double clignotement vert**

**Parpadeo verde doble**

**Lampeggio verde doppio**

**Leuchtet zweimal grün auf**

**Green Single flash** - every 30 seconds: delayed start.

- every 20 seconds: low battery, logging, no alarm. - every 10 seconds: logging, no alarm.

**Simple clignotement vert** - toutes les 30 secondes: retard au démarrage. - toutes les 20 secondes: batterie faible, enregistrement en cours, pas d'alarme. - toutes les 10 secondes: enregistrement en cours, pas d'alarme.

**Parpadeo verde simple** - cada 30 segundos: inicio demorado. - cada 20 segundos: batería baja, registrando, sin alarma. - cada 10 segundos: registrando, sin alarma.

**Lampeggio verde singolo** - ogni 30 secondi: avvi ritardato. - ogni 20 secondi: batteria scarica, registrazione in corso, nessun allarme. - ogni 10 secondi: registrazione in corso, nessun allarme.

**Leuchtet einmal grün auf** - alle 30 Sekunden: Verzögerter Start. - alle 20 Sekunden, Batterie schwach, Aufzeichnung, kein Alarm. - alle 10 Sekunden: Aufzeichnung, kein Alarm.

**Red/Green single flash** - every 20 seconds: logger full, last value equal to or exceeds the low or high alarm.

**Simple clignotement rouge/vert** - toutes les 20 secondes: enregistreur plein, dernière valeur égale ou supérieure à basse ou haute alarme.

**Parpadeo rojo/verde simple** - Cada 20 segundos: registrador lleno, último valor igual o superior a la alarma baja o alta.

**Lampeggio rosso/verde singolo** - ogni 20 secondi: Logger pieno, ultimo valore uguale o maggiore dell'allarme limite min. o max.

**Leuchtet einmal rot/grün auf** - alle 20 Sekunden: Logger voll, letzter Wert entspricht genau dem Wert oder überschreitet den Wert für einen Alarm wegen Unterschreitung oder Überschreitung.

Red LED  
Diode rouge  
LED Rojo  
LED rosso  
Rote LED



**Red Double flash** - every 10 seconds: logging, high alarm.

- every 20 seconds: logging, high alarm, low battery.

**Double clignotement rouge** - toutes les 10 secondes: enregistrement en cours, haute alarme. - toutes les 20 secondes: enregistrement en cours, haute alarme, batterie faible.

**Parpadeo rojo doble** - Cada 10 segundos registrando, alarma alta cada 20 segundos registrando: alarma alta, batería baja.

**Lampeggio rosso doppio** - ogni 10 secondi: registrazione in corso, allarme limite max. - ogni 20 secondi: registrazione in corso, allarme limite max, batteria scarica.

**Leuchtet zweimal rot auf** - alle 10 Sekunden: Aufzeichnung, Alarm wegen Überschreitung. - alle 20 Sekunden: Aufzeichnung, Alarm wegen Überschreitung, Batterie schwach.

**Red Single flash** - every 10 seconds: logging, low alarm.

- every 20 seconds: logging, low alarm, low battery.

**Simple clignotement rouge** - toutes les 10 secondes:

enregistrement en cours, basse alarme. - toutes les 20

secondes: enregistrement en cours, basse alarme, batterie faible.

**Parpadeo rojo simple** - cada 10 segundos: registrando,

alarma baja. - cada 20 segundos registrando, alarma baja, batería baja.

**Lampeggio rosso singolo** - ogni 10 secondi: registrazione in corso, allarme limite min. - ogni 20 secondi: registrazione in corso, allarme limite min, batteria scarica.

**Leuchtet einmal rot auf** - alle 10 Sekunden: Aufzeichnung, Alarm wegen Unterschreitung. - alle 20 Sekunden: Aufzeichnung, Alarm wegen Unterschreitung, Batterie schwach.

**No LEDs flash** - LEDs disabled during configuration to save battery power and increase logging life or) Logger stopped or) Battery empty.

**Pas de clignotements** - Diodes désactivées pendant la configuration pour économiser la batterie et augmenter la vie de l'enregistreur ou) Enregistreur arrêté ou) Batterie déchargée.

**Ningún LED parpadeando** - LEDs deshabilitados durante la configuración para ahorrar batería y aumentar la vida de registro o) Registrador parado o) Batería vacía.

**Nessun LED lampeggiante** - I LED sono disattivati durante la configurazione al fine di risparmiare la carica della batteria ed estendere la durata di registrazione o) Logger arrestato o) Batteria scarica.

**Kein Aufleuchten der LEDs** - LED während der Konfiguration abgeschaltet, um Batteriestrom zu sparen und die Aufzeichnungsdauer zu verlängern oder) Logger gestoppt oder) Batterie leer.

## OM-EL-USB-1, OM-EL-USB-2, OM-EL-USB-3, OM-EL-USB-4 & OM-EL-USB-TC



### Battery Installation

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 [www.omega.com](http://www.omega.com), PN: OM-EL-BATT



### Installation de la batterie

Avant d'utiliser l'enregistreur de données, vous devez suivre les instructions ci-dessous pour installer la batterie 1/2AA de 3.6 V. Vous pouvez vous procurer des batteries de rechange auprès de [www.omega.com](http://www.omega.com), N° de réf.: OM-EL-BATT



### Cómo colocar las baterías

Antes de utilizar el registrador de datos, necesitará colocar la batería 1/2AA de 3.6V suministrada, siguiendo estas instrucciones. Pueden adquirirse baterías de repuesto en [www.omega.com](http://www.omega.com), Pieza número: OM-EL-BATT



### Installazione della batteria

Prima di utilizzare il data logger, inserire la batteria 1/2 AA da 3.6 V fornita in dotazione seguendo le istruzioni. Le batterie di ricambio sono disponibili sul sito [www.omega.com](http://www.omega.com), n. art.: OM-EL-BATT



### Einsetzen der Batterie






Vor der Benutzung des Datenloggers muss eine 3.6V 1/2AA Batterie entsprechend der untenstehenden Anweisungen eingesetzt werden. Ersatzbatterien können über [www.omega.com](http://www.omega.com) bezogen werden; PN: OM-EL-BATT



# OM-EL-USB-LITE

## OM-EL-USB-LITE



-  Temperature Data Logger
-  Enregistreur de données de température
-  Registrador de datos de temperatura
-  Data logger della temperatura
-  Temperatur-Datenerfassungsgerät



### Press the button to view the data logger's status.

Appuyer sur le bouton pour afficher l'état de l'enregistreur de données.

Pulse el botón para ver el estado del registrador de datos.

Premere il pulsante per visualizzare lo stato del data logger.

Drücken Sie den Knopf, um den Status des Datenerfassungsgeräts anzuzeigen.



### Single green flash

Clignotement vert simple

Parpadeo verde simple

Lampeggio verde singolo

Leuchtet einmal grün auf

### - Logging, no alarm

- Enregistrement en cours, pas d'alarme

- Registrando, sin alarma

- Registrazione in corso, nessun allarme

- Zeichnet auf, kein Alarm



### Single red flash

Clignotement rouge simple

Parpadeo rojo simple

Lampeggio rosso singolo

Leuchtet einmal rot auf

### - Logging, low alarm

- Enregistrement en cours, basse alarme

- Registrando, alarma baja

- Registrazione in corso, allarme limite min.

- Zeichnet auf, alarm wegen Unterschreitung



### Double red flash

Clignotement rouge double

Parpadeo rojo doble

Lampeggio rosso doppio

Leuchtet zweimal rot auf

### - Logging, high alarm

- Enregistrement en cours, haute alarme

- Registrando, alarma alta

- Registrazione in corso, allarme limite max.

- Zeichnet auf, Alarm wegen Überschreitung

# OM-EL-USB-LITE



## Battery Replacement

We recommend that a suitable, new battery is used if any low battery state is detected by the software or if a large proportion of the typical 30 day battery life has been consumed. Remove the screw. Pull the two halves of the case apart. Remove the old battery. Insert the new battery. Assemble the two halves of the case. Insert the screw and tighten.



## Changement de la pile

Nous recommandons d'utiliser une nouvelle pile en cas de détection par le logiciel d'une faible autonomie de la pile en place ou si une grande partie des 30 jours de vie habituels de la pile s'est écoulée. Enlever la vis. Séparer les deux moitiés du boîtier. Enlever l'ancienne pile et insérer la nouvelle. Remonter les deux moitiés du boîtier. Remettre la vis et revisser.



## Cambio de la batería

Recomendamos utilizar una batería adecuada nueva si el software detecta que queda poca batería o si se ha consumido la mayor parte de los 30 días que suele durar la batería. Extraiga el tornillo. Separe las dos mitades de la carcasa. Extraiga la batería usada. Coloque la batería nueva. Junte las dos partes de la carcasa. Coloque el tornillo y apriételo.



## Sostituzione della batteria

Si consiglia di inserire una nuova batteria del tipo appropriato se il software dovesse rilevare un livello basso della batteria o una volta trascorso il periodo di durata della batteria di 30 giorni (o prima di questo termine). Rimuovere la vite. Separare le due parti del vano batteria. Rimuovere la vecchia batteria. Inserire la nuova batteria. Posizionare le due parti del vano batteria. Inserire la vite e serrarla.



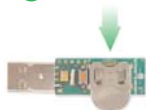
## Auswechseln der Batterie

Wenn die Software einen niedrigen Batteriestatus feststellt oder die typische Lebensdauer der Batterie von 30 Tagen weitgehend aufgebraucht ist, sollte eine geeignete neue Batterie eingesetzt werden. Entfernen Sie die Schraube. Ziehen Sie die beiden Gehäusehälften auseinander. Entfernen Sie die alte Batterie. Setzen Sie die neue Batterie ein. Schieben Sie die beiden Gehäusehälften wieder zusammen. Bringen Sie die Schraube an, und ziehen Sie sie fest.

1



2



3



4



## 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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