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RETURN REQUESTS/INQUIRIES

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2. SOFTWARE INSTALLATION

Install the Data Logger Graph software by placing the CD in the PC CD-ROM drive. If setup program does not automatically run and start, double click the "setup.exe" file included on the CD->Software directory to start installing. Follow the on-screen prompts to complete installation. You will see a new icon Data Logger Graph on your desktop. For further information on the software, you can access the help menu on the software interface. Please note that you must install the USB driver after completing the software installation to use the data logger.

3. DRIVER INSTALLATION

After completing the software installation, **make sure the CD is in your PC CD-ROM drive**. Double click the "USBXpressInstaller.exe" file included on the CD->Driver directory to start installing. Follow the on-screen prompts to complete installation. You can now plug the data logger into an available USB port on the PC. A few minutes later, your computer will show a message that the driver for this data logger device has been installed normally.

Now, you have successfully installed the necessary software and driver for your data logger. Please continue to refer to next section of this document for a guide on how to use the data logger for a task.

WELCOME

This Direct-USB-Connection data logger is designed for easy use. This Quick Start Guide covers preparation and use to assist you in getting the best results from your data logger. Now follow this guide to start.



IMPORTANT NOTE

This series of data loggers offer a variety of different models and measurement parameters. so in the sensor location, there will be different sensor extensions for different models that you purchased, but this guide always can be suitable for the whole series of data loggers.

The product range is constantly being updated and new models added, and related information is liable to change without notice. So if necessary, consult your supplier to get the latest information and news.

To install the software and USB driver, you must have an administrator rights on the host computer.

When the data logger is connected to the USB port, the battery inside the data logger is discharged at a higher rate than normal. To conserve battery life, do not leave the logger connected to the USB port for a prolonged period of time.

GETTING STARTED

All you need to prepare are a PC running under Windows XP/ Vista/ 7/8(32 bit or 64 bit) with USB port and CD-ROM drive, the CD including Data Logger Graph software and driver, the data logger itself and a 3.6V lithium battery.

1. BATTERY INSTALLATION

Before using the data logger, you will need to install the 3.6V lithium battery included in the data logger standard kit.





4. SETUP AND START

To use the data logger, take the following steps: 1. Make sure the battery is correctly installed, or if you use USB port to power the data logger directly, you must not remove data logger from USB port when the data logger is logging.

Insert the data logger into an available USB port of a PC which has installed the Data

Dogger Graph software and driver.
 Double click on the "Data Logger Graph" icon on your Windows desktop. This will load the Data Logger Graph software. On the left top of the software, you can see "Start" button

the Data Logger Graph software. On the left top of the software, you can see "Start" butto and click on it. This will open "Data Logger Device" dialog.
Select data logger device that will be set(or default). Here you can check the firmware version, status, etc. of the selected data logger device.
Click on the "Setup" button to load "Data Logger Setup" dialog. Here you can follow the screen instructions and setup the data logger. On the "General" setting, you can set logger name and sample rate. On the "Channel Settings", you can set high/low limit, enable/disable alarm, and enable/disable alarm hold. On the "Start and Stop Method", you can select how to start and stop logging. You will find that the data logger.
Go to "Advanced" to "Select Thermocouple Type".
Click on the "Finished" button. The data logger will start according to your settings.
Remove the data logger for USB port exceent when using the USB port as a power

8. Remove the data logger from PC USB port except when using the USB port as a power supply.



5. DATA DOWNLOAD

1. When a task is finished, you can download data to PC. Follow steps 2 through 4 of "SETUP and START" section, and then click on the "**DOWNLOAD**" button on the "**DATA LOGGER DEVICE**" dialog. Here you can follow the screen instructions to download and save the data to PC. Please note that you need to input correct password to operate this step if the data logger has been set up with a password before(factory default password is NO

 After downloading finished, a "Downloading Finished" dialog will be shown, user can click the "Open" button to graph the downloaded data.



6. GRAPH

1. Double click on the "Data Logger Graph" icon on your Windows desktop. This will load the Data Logger Graph software

2. User can open a data logger file (*.dlg, *.mdlg) via the menu "File->Open", and the graph will be shown.

3. Zoom in: Use the mouse to click and drag a box around any graph area to magnify the area selected. Zoom out: Click on the "Undo Last" or "Undo All" button on tool bar to show last graph area or the original graph area.

4. Pan: Press and hold the mid-button of the mouse at any graph location, and move the mouse to pan the graph area. 5. Zoom and Pan Method. Auto: Zoom and pan in any direction. Horizontal: Zoom and pan

only in horizontal direction. Vertical: Zoom and pan only in vertical direction. Manually: Set the start time and end time for horizontal axis, and set the scale for the vertical axis. 6. Mark Data Points: Click right-button on graph area to show the pop-up menu below,

Click "Mark Data Points" to show marks on all sample point locations. 7. Graph Settings: Click right-button on graph area to show the pop-up menu below, click "Graph Settings" to show a dialog. User can set color, font, line size and unit for the graph.

7. FILE EXPORT

The software save and open the *.dlg or *.mdlg file type in default. User can click "File->Save As" to save the *.dlg or *.mdlg as other file types, including *.txt, *.csv, *.xls, *.bmp, and *.jpg.

8. PRINT

To print the graph, statistics and data table, click on the printer icon on standard toolbar or select "Print" from the "File" pull-down menu. User can also click the "File->Print and Export Options" select the printed contents in

the following dialog.

Print and Export O	ptions		x
Please select exproted in p		hat will be printed o	or
🔽 Graph	V Statistics	🔽 Data Table	
		OK C	ancel

LED INDICATION GUIDE

\bigcirc	Not any LEDs flash Data logger is idle, battery is exhausted or no battery is fitted. ¹
•	Green single flash every 10s The data logger is currently logging.
• •	Green double flash every 10s The data logger has finished user set logging task.
•	Red single flash every 10s The data logger is currently logging. Alarm ² (High, low or both) on at least one channel.
••	Red double flash every 10s The data logger has finished user set logging task. Alarm (High, low or both)on at least one channel.
	Yellow single flash every 60s Low battery indication. The logging task continues, and you need to check battery capacity and replace it timely. Yellow single flash every 1s Indicate that USB connection is normal when connecting.
• •	Yellow and Green single flash one by one Battery is installing and power on OK.
•	Yellow and red single flash one by one Battery is installing and power on failed.

¹ Battery Status can be checked via the Data Logger Device dialog in the Data Logger Graph software. Even if the battery is exhausted, the logged data won't be lost.

Red LED Alarm for each channel and Green LED Status Indication can be disabled via the Data Logger Setup dialog in the Data Logger Graph software for save power.



BUTTON

There is only one button on the housing of the data logger, pressing the button has a different outcome depending on what the logger is doing at the time the button is pressed:

 If user selects Start by Button as start method via the Data Logger Setup dialog in the Data Logger Graph software, after a setup is finished, user can press and hold the button until the **green LED** lights to start the logging task.

• If user select Overwrite When Full as stop method via the Data Logger Setup dialog in the Data Logger Graph software, user can press and hold the button until the **red LED** lights to stop the logging task.

Press the button once to change shown readings channel.

HOW TO GET THE CORRECT RESULTS

 Check the battery capacity before beginning your logging task. If you want to use the USB interface to supply power for data logger, this can be skipped. • Observe the IP rating, measurment range and operating range. Allow it to be located in a place with a right environment.

ENVIRONMENTAL DISPOSAL

This product may contain substances that can be hazardous to the environment if not Inis product may contain substances that can be hazardous to the environment if not disposed of properly. Electrical and electronic equipment should never be disposed of with general house hold waste but must be separately collected for their proper treatment and recovery. The crossed-out bin symbol, placed on the product, reminds you of the need to dispose of the product correctly at the end of its life. In this way you will assist in the recovery, recycling and re-use of many of the materials used in this product. BATTERY Most batteries end up in landfill where their hazardous material can leach into the soil and cause harm. It is much more environmentally friendly to recycle batteries in a safe, correct manner. Follow applicable country, state, and local regulations for disposal/recycling

of the lithium battery supplied with your data logger. RoHS The Restriction of Hazardous Substances (RoHS) Directive 2002/95/EC of the European Parliament stipulates that certain hazardous substances must not be present above defined levels in products. This data logging product is manufactured to be RoHS compliant.

LCD DISPLAY

User can press the button once to activate the LCD display and switch the displayed channel and functions. The LCD display will be closed automatically if not any button operations within 30 seconds.



- 1. The real-time readings.
- 2. LOG symbol shown when Logging mode. LOG symbol not shown when other modes. 3. Up arrow shown when <u>Logging mode or Finished mode</u>: Some logged readings exceed the high limit.

4. Down arrow shown when Logging mode or Finished mode: Some logged readings exceed the low limit

NOTE: The LCD can't work at below -10 Celsius degree, and it will not display normally at the environment conditions. For further information on the software, you can access the help menu on the software interface or other documents on the CD.



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Please download the software as the website: https://www.omega.com/pptst/OM-20A-TC.html