

**IMPORTANT DL160 TEST LEAD ACCESSORY INFORMATION**

Detachable Test Leads, pictured here and referred to in the User Manual, that do not conform to EU standards are not included with this product when it is sold in certain countries. For additional information or to contact Customer Care please visit the Extech website [www.extech.com](http://www.extech.com).

**INFORMACIÓN IMPORTANTE SOBRE ACCESORIOS DL160**

Los cables de prueba desprendibles, ilustrados aquí y a los que se hace referencia en el Manual del Usuario, y que no cumplen las normas de la UE no se incluyen con este producto cuando se vende en ciertos países. Para información adicional o llamar a Servicio al Cliente visite por favor el portal web de Extech [www.extech.com](http://www.extech.com).

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**INFORMAZIONI IMPORTANTI SUGLI ACCESSORI DL160**

I cavi di misura scollegabili, rappresentati nell'immagine e a cui si fa riferimento nel Manuale utente, che non si conformano agli standard UE non sono inclusi nel prodotto venduto in determinati Paesi. Per ulteriori informazioni o per contattare l'Assistenza clienti, visitare il sito Web di Extech, all'indirizzo [www.extech.com](http://www.extech.com)

**INFORMAÇÕES IMPORTANTES SOBRE OS ACESSÓRIOS DL160**

Os cabos de teste destacáveis, aqui ilustrados e referidos no Manual do Usuário, que não observarem as normas da UE não estão incluídos com este produto quando ele é vendido em certos países. Para informações adicionais ou para contatar a Assistência ao Cliente, por favor, visite o site da Extech [www.extech.com](http://www.extech.com).

User's Guide

**EXTECH**<sup>®</sup>  
**INSTRUMENTS**

A FLIR COMPANY

# Dual Input True RMS AC Voltage/Current Datalogger

Model DL160 / DL162



## ***Introduction***

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Congratulations on your purchase of this Dual Input Voltage / Current datalogger. With this meter, you can monitor and log data (Voltage/Voltage, Current/Current or Voltage/Current) over long periods of time and then easily transfer the data to a pc for viewing and evaluation. The LCD display provides real time data, Max/Min data and time information. This meter is shipped fully tested and calibrated and, with proper use, will provide years of reliable service.

## ***Safety***

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### ***⚠Warning!***

- Do not attempt to make measurement in flammable gaseous areas!
- When testing a non-insulated cable, pay attention to avoid short circuits.
- Do not attempt to use the instrument when your hand is wet!
- Do not input over range during measurements.
- Never open the battery cover during measurements.
- Stop using the instrument when there is any structural defect or exposed metal parts.
- Do not install substitute parts or make modifications on the meter.
- Never replace the battery in moist areas.
- Ensure the meter is disconnected and switch off before opening the battery cover to replace the battery.
- Do not attempt to place the instrument in high vibration areas.
- Do not expose the meter to direct sunlight, high temperature and high moisture environment.
- Switch off the meter after use. Remove the AAA batteries when the meter will be stored for a period of time..
- When cleaning, do not use abrasives or solvents on the meter, use a damp cloth and mild detergent only.

## Description and Button Functions

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### 1. LCD Description



Auto power off (does not apply when recording), the meter will automatically shut off after 5mins without any button presses.

**REC:**

Recording status. After the record mode is set up by the software, press the START/STOP button for more than 4 seconds to begin recording. This icon will be displayed and indicates the meter is recording data. Press the same button again for more than 4 seconds to stop recording.



Record until full is selected. When the memory is full, the datalogger will stop recording.



Continuous recording is selected. When the memory is full, the data is truncated.  
Tj0.001 Tc 0 Td0  
p0.000 Tz(0)207.200

## Operation

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1. Install 4 fresh AAA batteries or connect the AC adaptor.
2. Set-up the datalogger using the software provided.
3. Connect the voltage test leads or the current probes to the AC source to be measured.
4. Press and Hold the START/STOP button for four seconds to start recording. The "REC" icon will appear in the display indication that recording has begun.
5. Press and Hold the START/STOP button for four seconds to stop recording. The "REC" icon will disappear from the display.
6. Remove the probe, connect the datalogger to a PC and use the supplied software to download the data.

Note: If the clock does not set to the correct time, replace the 3V button battery.

You, as the end user, are legally bound (**Battery ordinance**) to return all used batteries and accumulators; **disposal in the household garbage is prohibited!**



You can hand over your used batteries / accumulators at collection points in your community or wherever batteries / accumulators are sold!

**Disposal:** Follow the valid legal stipulations in respect of the disposal of the device at the end of its lifecycle.

## Software Introduction

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1. Place the CD in the drive and then follow the on-screen installation instruction.
2. After the software is installed, keep the CD in the drive and connect the datalogger to the PC by the USB cable.
3. A USB Driver installation window will pop-up. Follow the directions to install the driver.

### System Required:

Windows 2000 or Windows XP or Vista

### Minimum Hardware Required:

PC or NoteBook with Pentium 90MHz or higher 32 MB RAM ;

At least 7 MB byte hard disk space available to install Datalogger USB software.

Recommended display resolution 1024X768 with High Color(16 bit).

### Software Operation

The Software operation is described in the HELP file located on the software disk.

## Specifications

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Display	Multi-function LCD
Maximum data points	256,000 values
Channels	dual channel, TRMS AC Voltage or Current
Sample rate	1s to 24h selectable
Analysis software	2000/XP/ Vista
Data output	USB port
Current Clamp Jaw opening	12.7mm (0.5")
Open input indication	"LO" appears on the LCD
Low battery indication	Empty battery symbol appears on the LCD
Power supply	4 AAA Batteries and 1 CR 3V memory button battery (CR2032 or equivalent)
Battery life	5 days (approximately)
AC Adaptor	9V, 0.5A
Standards	CE , CAT III 600V, for inside use, maximum height 2000 meters
Operating Temperature	0 to 50°C, 32 to 122°F
Operating Humidity	<70% RH
Storage temperature:	-20°C to 60°C (-4°F to 140°F)
Storage Humidity	< 80% relative humidity.
Dimensions	114 x 63 x 34mm" (4.5 x 2.5 x 1.3)
Weight	248g. (8.7oz)

Function	Range	Accuracy
Voltage (40Hz to 1kHz)	10VAC to 600.0VAC	±2.0%±1V
Current (50/60Hz)	10A to 200.0A	±2.0%±1A

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