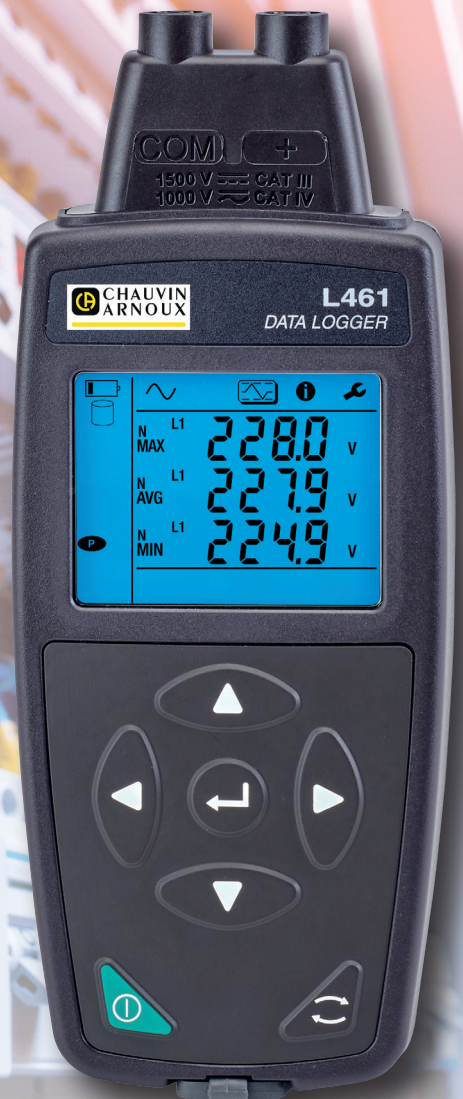


# L411, L412 & L461

## Voltage and current recorders

- Easy to set up and use
- Large measurement storage memory
- Measures and records up to 1500 Vdc
- Remote current and voltage sensors



CAT III  
1000 V

CAT IV  
600 V

CAT III  
1500 V DC



IP 54

*Measure up*





# Data loggers for industrial maintenance

Ideal for detecting any variations or anomalies in the measured signal, this series of recorders features automatic time stamping. Analysis of recorded events is simplified.



## Application

### The range includes 3 models

**L411:** current recorder with integral MiniFlex

**L412:** current recorder with 2 measurement channels

**L461:** AC and DC voltage recorder, 1 channel. Up to 1500 Vdc

### The L400 Series recorder range

#### Quick selection guide

Modele	L411	L412	L461
1 measurement channel	•	•	•
2 measurement channels		•	
Current: 3000 A ac MiniFlex captive sensor	•		
Current : Multiple AC current sensor technology		•	
Voltage: 1000 Vac and 1500 Vdc measurement			•
Single-phase electrical distribution system	•	•	•
Single & two-phase electrical distribution system		•	



### L411, a cost-effective solution



Use on a feeder, a line or an electrical circuit



### L412, a versatile solution



Compatible with a wide range of current sensors

Automatic recognition of the connected sensor



### L461, dedicated voltage monitoring solution



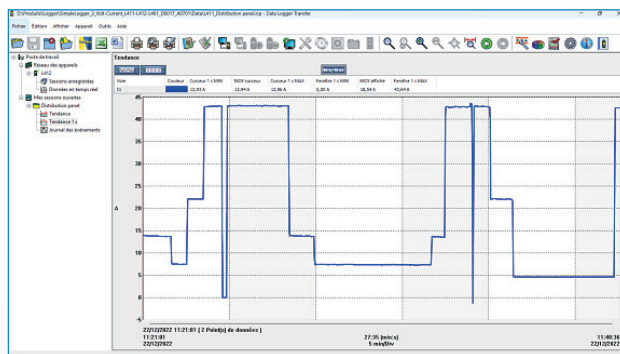
Perfectly suited to measurements on photovoltaic installations

## Software



### Datalogger Transfer, the software dedicated to data processing

- Retrieval of recorded measurements: graphical representations or in the form of a table of values, with the option of exporting to Excel format,
- Real-time monitoring of measurements.
- Device configuration (selection of current sensor measurement range, network electrical frequency, modification of device access passwords, etc.).



Signal trend, recording representation

## Communication



Our devices act as remote sensors for measuring voltage and current.

This means they can be used in a number of applications:

### WiFi

The recorders have 2 Wifi operating modes. They can be connected to the company's IT network via a server. They can be addressed directly by a PC or smartphone.

### IRD DataView® Synch

A secure server is at your disposal so that you can consult your data from anywhere in the world.



### USB

A USB connection allows you to configure or download data, but above all to take control of a device in any circumstance.



### Embedded web server for operation with Android and iOS

Wi-Fi enabled instruments incorporate a web server to allow control and display via a web browser.

Main features of the web server :

- Real-time display
- Trend recording
- Configuration (included for language with a flag)

Measurement campaign configuration screen

# TECHNICAL SPECIFICATIONS

Model	L411	L412	L461
Measurements			
Number of channels	1	2	1
Range	From 0.5 to 3000 A ac	Depending on sensor(s)	From 10 V to 1200 Vac / 1700 Vdc
Frequency	Yes		
Description			
Display	LCD backlit		
Memory size	8 GB		
Acquisition speed	1 measurement / s		
Aggregation	1 to 60 min		
Communication	USB, Wifi, Web server, IRD server DataView Synch		
Power supply	3 piles AA, ou USB		
Battery life	3 days recording without Wi-Fi		
Shock-proof sheath	Option		
Dimensions	147 x 34 x 72 mm	177 x 34 x 72 mm	178 x 34 x 72 mm
Weight	340 g approx.	300 g approx.	
Sensor	Ø 100mm / 350mm cable length 1,2 m	-	
Operating temperature	-20°C to 50°C		
Protection	IP 54		
Electrical safety	600 V CAT IV 1000 V CAT III	600 V CAT IV 1000 V CAT III	600 V CAT IV 1000 V CAT III 1500 Vdc CAT III

## TO ORDER AND DELIVERY STATUS

**L411.....P01157180**  
Current logger supplied with USB-micro USB cable, USB mains adapter, data transfer and management software (1), 3 batteries (AA or LR06), multi-language quick start guide, test report and multi-language operating manual (1).

**L412.....P01157181**  
L412 current logger supplied with USB-micro USB cable, USB mains adapter, data transfer and management software (1), 3 batteries (AA or LR06), multi-language quick start guide, test report and multi-language operating manual (1).

**L461.....P01157182**  
L461 voltage logger supplied with USB-micro USB cable, USB mains adapter, data transfer and management software (1), 3 batteries (AA or LR06), multi-language quick-start guide, 2 x 3-metre red and black 1500 V category III or 1000 V category IV banana/banana voltage leads, 2 x 1500 V category III or 1000 V category IV alligator clips (red and black), test report and multi-language operating manual (1).

(1) accessible and downloadable from our website

## ACCESSORIES

Protective shell.....P01654252  
Multifix S02 (120x245x60).....P01298075  
Multifix compatible fixing accessory.....P01102100Z  
USB to mains adapter (2 A, 5 V, 10 W USB-A).....P01651023  
1.5 V LR06 battery.....P01296033  
DataVIEW® software.....P01102095

For L461 :

Pair of 4mm banana cords 1.5 m red and black .....P01295451Z  
Set of red and black alligator clips .....P01295457Z  
Pair of magnetic key tips .....P01103058Z  
Reeling box .....P01102149

For L412 ,current sensors as for Qualistar and PEL :

MN93 clamp.....P01120425B  
MN93A clamp.....P01120434B  
C193 clamp.....P01120323B  
MINI94 clamp.....P01106194  
MiniFlex MA194 250 mm.....P01120593  
MiniFlex MA194 350 mm.....P01120592  
MiniFlex MA194 1000 mm.....P01120594

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