

# Eliwell Electric

The new "Electric" range comprises a set of new generation digital instruments for measuring and controlling electrical parameters with one or two operating thresholds.

The new 3-Din Rail module is available, which is easy to install thanks especially to its compactness.

The presence of one or two user-programmable digital outputs, both available on relay, offers the possibility of managing maximum and minimum load thresholds or activating external user positions, such as alarms. Such positions may also be activated manually by a key or by digital input.

The Eliwell Electric range of products, with their high reliability, precision, performance and extremely competitive price, offer the right response to the most demanding market requirements.

•The electrical measurements are made with true effective value (True RMS).

## Electrical measurement specifications

### Measurement of alternating voltage

- direct measurement of voltage 0-500V~, minima 20V~
- peak factor 1,43
- frequency range 50-65Hz

### Measurement of direct voltage

- direct measurement of voltage 0-500V=, minimum 20V=

### Measurement of alternating current

- direct measurement for currents 0...5A~ or 0...10A~, depending on the model, minimum 0,3A~
- indirect measurement for currents 0-1999A~ by means of external 5 Ampère current transformer
- peak factor 2
- frequency range 50-65Hz

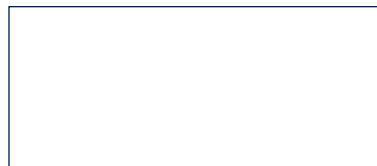
### Measurement of direct current

- indirect measurement of direct currents 0-1999A=, by means of external 60mV shunt

### Measurement of frequency

- range 35...2000Hz

For more information please contact:



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cod. CT122617

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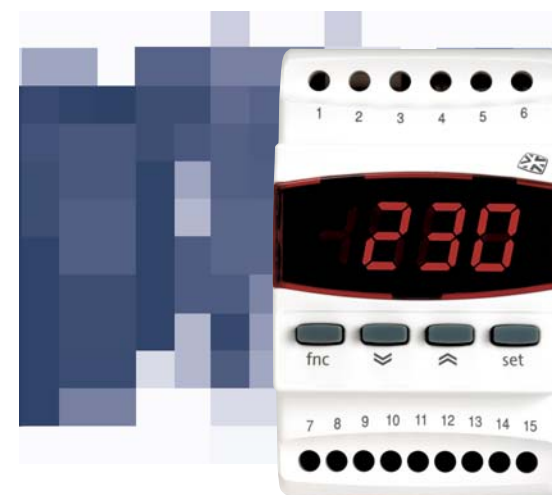
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**Climate Controls Europe**  
An Invensys Company



## Eliwell Electric

The new range of multimeters  
for measuring voltage,  
current and frequency.

COMMERCIAL REFRIGERATION



## IE 103 (LX) - 123 (LX)

The IE 103 (LX) - IE 123 (LX) devices are alternate Multimeters for voltage, current and frequency, for direct indirect measurement. The maximum applicable voltage is 500V~ (20V~ minimum), in the 50...65Hz frequency range while the Measurement of maximum direct current is up to 5A~ (0.3A~ minimum) and indirect up to 1999A~ using external T.A., in the 50...65Hz frequency range.

Frequency measurement is up to 500Hz (minimum 35Hz). The electric quantities to be measured is selected by parameter. The device is suited (provided) with a TTL serial port for the connection with TelevisSystem, or alternately, to networks with ModBUS protocol; for this particular application it is necessary the use of the BusAdapter 150 TTL RS-485 interface module.

- The IE 123 (LX) device is, furthermore, an alternate Multimeter for voltage, current and frequency, for indirect measurement, with two points of intervention. Two digital SPST 5(2)A 250V relay outputs allows therefore to manage the minimum and maximum load threshold for external loads trigger, such as alarms.

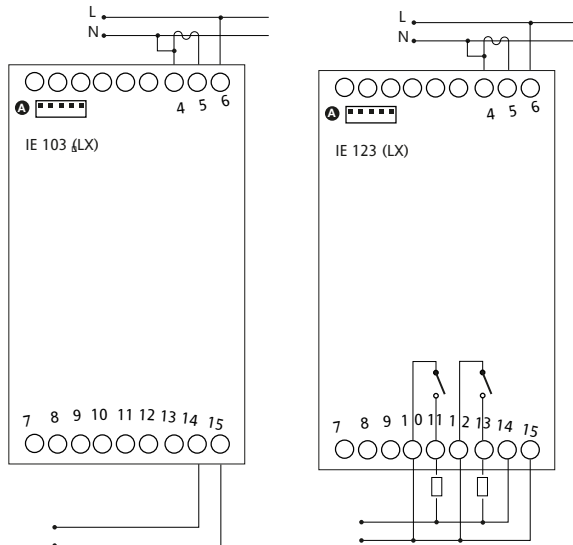
## IE 103 (LX) - 123 (LX)

### TERMINALS

4 - 5 - 6	Alternate indirect measurement
14 - 15	Power supply
10 - 11	Relay 2 N.O. <b>IE 123 MODEL ONLY</b>
12 - 13	Relay 1 N.O. <b>IE 123 MODEL ONLY</b>
L	Line
N	Neutral

### LX MODELS ONLY

A TTL input for connection to TelevisSystem



## IE 203 (LX)

The IE 203 (LX) device is an alternate Multimeter for voltage, current and frequency, for direct indirect measurement.

The maximum applicable voltage is 500V~ (20V~ minimum), while the measurement of maximum direct current is up to 10A~ (minimum 0,3 A~), in the 50...65Hz frequency range and indirect up to 1999A~ using external T.A., in the 50...65Hz frequency range.

Frequency measurement is up to 500Hz (minimum 35Hz). The electric quantities to be measured is selected by parameter. The device is suited (provided) with a TTL serial port for the connection with TelevisSystem, or alternately, to networks with ModBUS protocol; for this particular application it is necessary the use of the BusAdapter 150 TTL RS-485 Interface module.

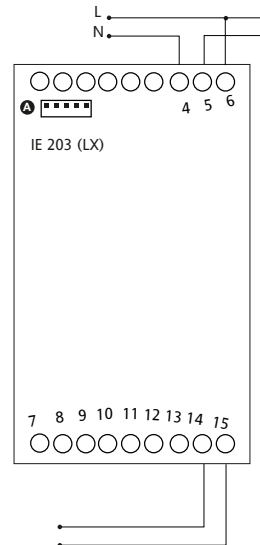
## IE 203 (LX)

### TERMINALS

4 - 5 - 6	Alternate direct measurement
14 - 15	Power
L	Line
N	Neutral

### LX MODELS ONLY

A TTL input for connection to TelevisSystem



## IE 303 (LX)

The IE 303 (LX) device is a direct Multimeter for voltage and current. The maximum applicable voltage is 500V~ (20~ minimum), while the applicable maximum current is up to 1999A~ using 60 mV external SHUNT.

The electric quantities to be measured is selected by parameter. The device is suited (provided) with a TTL serial port for the connection with TelevisSystem, or alternately, to networks with ModBUS protocol; for this particular application it is necessary the use of the BusAdapter 150 TTL RS-485 Interface module.

## IE 303 (LX)

### TERMINALS

4 - 5 - 6	Continuous indirect measurement
14 - 15	Power supply
-	terminal 4 -5
+	terminal 6

### LX MODELS ONLY

A TTL input for connection to TelevisSystem

