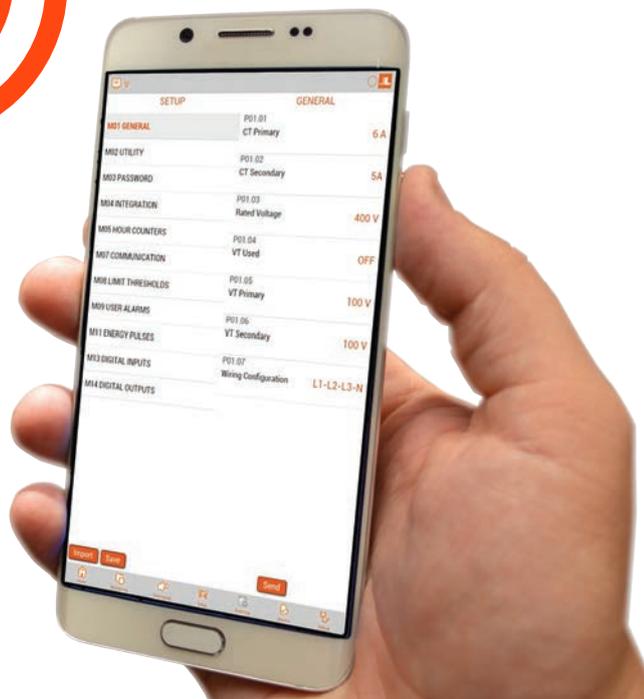


# DIGITAL MULTIMETER DMG 615



  
**electric**

ENERGY AND AUTOMATION



Order code	Description	Qty per pack	Wt
		n°	[kg]
<b>DMG 615</b>	Backlight icon 72x46mm LCD, harmonic analysis, auxiliary supply 100...440VAC/110...250VDC, front optical port, built-in RS485 serial port. Multilanguage ①	1	0.350

Flush-mount LCD multimeters, expandable.  
High accuracy measuring of active energy with Class 0.5s.

① English, Italian, French, Spanish, Portuguese and German.

## General characteristics

DMG 615 is a **high accuracy multimeter of electrical measurements** that allows the control of the energy distribution network.

It is available with a flush-mount housing, (96x96mm/3.78"x3.78") and 1 expansion slot to fit plug-in expansion modules, suitable for numerous applications.

The main features include an extended power supply voltage range, high measurement accuracy, expandability and graphic interactive interface for simple use.

Main measurements:

- Voltage: phase, line and system values
- Current: phase values (neutral current calculated)
- Power: apparent, active and reactive phase and total values
- P.F.: Power Factor per phase and total
- Frequency of measured voltage value
- HIGH-LOW-AVERAGE value functions for all measurements
- Maximum demand of power and current values
- Voltage and current asymmetry
- Total harmonic distortion (THD): voltage and current
- Harmonic analysis of voltage and current up to the 15° order
- Energy meters for active, reactive, apparent partial and total values
- Hour counter for programmable total and partial hours
- phase active power asymmetry.

## EXPANSION MODULES



EXP10...

Order code	Description
Inputs and outputs.	
<b>EXP10 00</b>	4 opto-isolated digital inputs
<b>EXP10 01</b>	4 opto-isolated digital outputs
<b>EXP10 02</b>	2 digital inputs and 2 static outputs, opto-isolated
<b>EXP10 03</b>	2 relay outputs rated 5A 250VAC
<b>EXP10 08</b>	2 opto-isolated digital inputs and 2 relay outputs rated 5A 250VAC
Communication ports.	
<b>EXP10 10</b>	Opto-isolated USB interface
<b>EXP10 11</b>	Opto-isolated RS232 interface
<b>EXP10 12</b>	Opto-isolated RS485 interface
<b>EXP10 13</b>	Opto-isolated Ethernet interface

## ACCESSORIES



CX 01

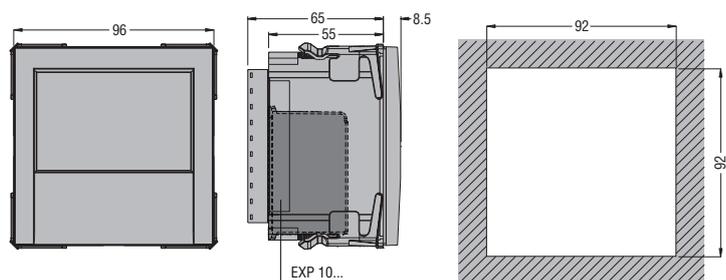
CX 02

Order code	Description
<b>CX 01</b>	USB/optical dongle with PC-DMG 615 connecting cable, for programming, data download, diagnostics and firmware upgrade
<b>CX 02</b>	Wi-Fi dongle for PC-DMG 615 programming, data download diagnostics and cloning

## Operational characteristics

- Auxiliary supply voltage range: 100...440VAC / 110...250VDC
- Voltage measurement range: 50...720VAC L-L
- Usage in medium and high voltage systems with voltage transformers
- Rated input current: By external CT 5A or 1A
- Frequency measurement range 45...66Hz
- True RMS measurements: for voltage and current
- Measurement accuracy:
  - Voltage:  $\pm 0,2\%$  (50...720VAC)
  - Current:  $\pm 0,2\%$  (0.1...1.1In)
  - Power:  $\pm 0,5\%$  f.s.
  - Frequency:  $\pm 0,05\%$
  - Active energy: Class 0.5s (IEC/EN 62053-22)
  - Reactive energy: Class 2 (IEC/EN 62053-23)
- Non-volatile memory for data storage
- Communication protocol Modbus-RTU, ASCII and TCP
- Compatible **Synergy** and **Xpress** software
- Flush-mount housing 96x96mm/3.78"x3.78"
- EN degree of protection: IP54 on front.

## DIMENSIONS [mm]



## Certifications and compliance

Certifications obtained: cULus, EAC, RCM.  
Compliant with standards: IEC/EN 61010-1, IEC/EN 61010-2-030, IEC/EN 61000-6-2, IEC/EN 61000-6-3, UL 61010-1, CSA C22.2 n° 61010-1, UL 61010-2-030, CSA 22.2 n° 61010-2-030.