D I G I T A L M U L T I M E T E R





Flush mount LCD multimeters, expandable



DMG 800RGCA

Order code	Description	Qty per pkg	Wt
		n°	[kg]
DMG 800RGCA	Graphic 128x80 pixel LCD, harmonic analysis, auxiliary supply 100440VAC/110250VDC Multilanguage: English, French, Spanish, Italian and Portuguese.	1	0.568
	Equipped with EXP10 02 (2 digital inputs and 2 static outputs, opto-isolated)		

Expansion modules



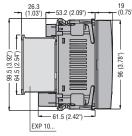
EXP10...

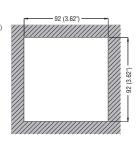
Order code	Description		
Inputs and outputs.			
EXP10 00	4 opto-isolated digital inputs		
EXP10 01	4 opto-isolated static outputs		
EXP10 020	2 digital inputs and 2 static outputs, opto-isolated		
EXP10 03	2 relay outputs rated 5A 250VAC		
EXP10 04	2 opto-isolated analog inputs 0/4-20mA or PT100 or 0-10V or 0±5V		
EXP10 05	2 opto-isolated analog outputs 0/4-20mA or 0-10V or 0±5V		
EXP10 08	2 opto-isolated digital inputs and 2 relay outputs rated 5A 250VAC		
Communicatio	Communication ports.		
EXP10 10	Opto-isolated USB interface		
EXP10 11	Opto-isolated RS232 interface		
EXP10 12	Opto-isolated RS485 interface		
EXP10 13	Opto-isolated Ethernet interface with web server function		
EXP10 30	Data storage, clock-calendar (RTC) with backup reserve energy for data logging		

One EXP10 02 is already installed on DMG800RGCA.

Dimensions [mm(in)]

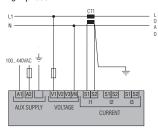




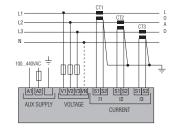


Wiring diagram

Single phase



Three phase with or without neutral



General characteristics

DMG 800RGCA digital multimeters is capable of viewing the measurements with high accuracy on the wide graphic LCD, which allow to control energy distribution

It is available with a flush-mount housing, (96x96mm/3.78"x3.78") and expansion slots to fit 4 plug-in expansion modules, suitable for numerous applications.

It is equipped with one EXP10 02 (2 digital inputs and 2 static outputs, opto-isolated).

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
- 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 31°
- Energy meters for active, reactive, apparent partial and total values
- Programmable tariff functions
- Hour counter for programmable total and partial hours
- Pulse counter for general use: consumption pulse counting for water, gas, etc., with expansion module.

Operational characteristics

- Auxiliary supply voltage range: 90...484VAC/93,5...300VDC
- Voltage measurement range: 20...830VAC L-L
- Usage in medium and high voltage systems with voltage transformers
- Rated input current: external CT 5A or 1A
- Frequency measurement range 45...66Hz
- True RMS measurements: for voltage and current
- Measurement accuracy:
- Voltage: ±0,2% (120...347VAC L-N)
- Current: ±0,2% (0,05...5A)
- Power: ±0,5% f.s.
- Power factor: ±0,5%
- Frequency: ±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 with Synergy and Press software Flush-mount housing 96x96mm/3.78"x3.78"

- Degree of protection: IP65 on front.

Certifications and compliance

Certifications obtained: UL listed for USA and Canada (cULus – File E93601), as Auxiliary Devices – Multimeters. LMB-EG-07 (Measurement Canada approval), notice of approval AE-2290..

Compliant with standards: IEC/EN 61010-1, IEC/EN 61000-6-2, IEC/EN 61000-6-4, UL508, CSA C22-2 n°14.