



Modular LCD  
multimeters. non  
expandable  
DMG110  
Three-phase +  
neutral  
4

Product designation

Product type designation

Type

DIN rail module number

#### Auxiliary supply Us

Auxiliary rated supply voltage AC	VAC	100...240
Auxiliary rated supply voltage DC	VDC	110...250
Auxiliary operating voltage range		
AC	min	VAC 90
	Max	VAC 264
DC	min	VDC 93.5
	Max	VDC 300

Operational frequency

min	Hz	45
max	Hz	66

Power consumption

Max	VA	2.2
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Power dissipation Max

W	0.8
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#### Measuring voltage inputs

Rated voltage (Ue)

phase-phase	VAC	690
phase-neutral	VAC	346

Operating voltage range

phase-phase	VAC	90...720
phase-neutral	VAC	50...415

Voltage inputs operational frequency

min	Hz	45
max	Hz	66

Voltage inputs measurement method

True RMS

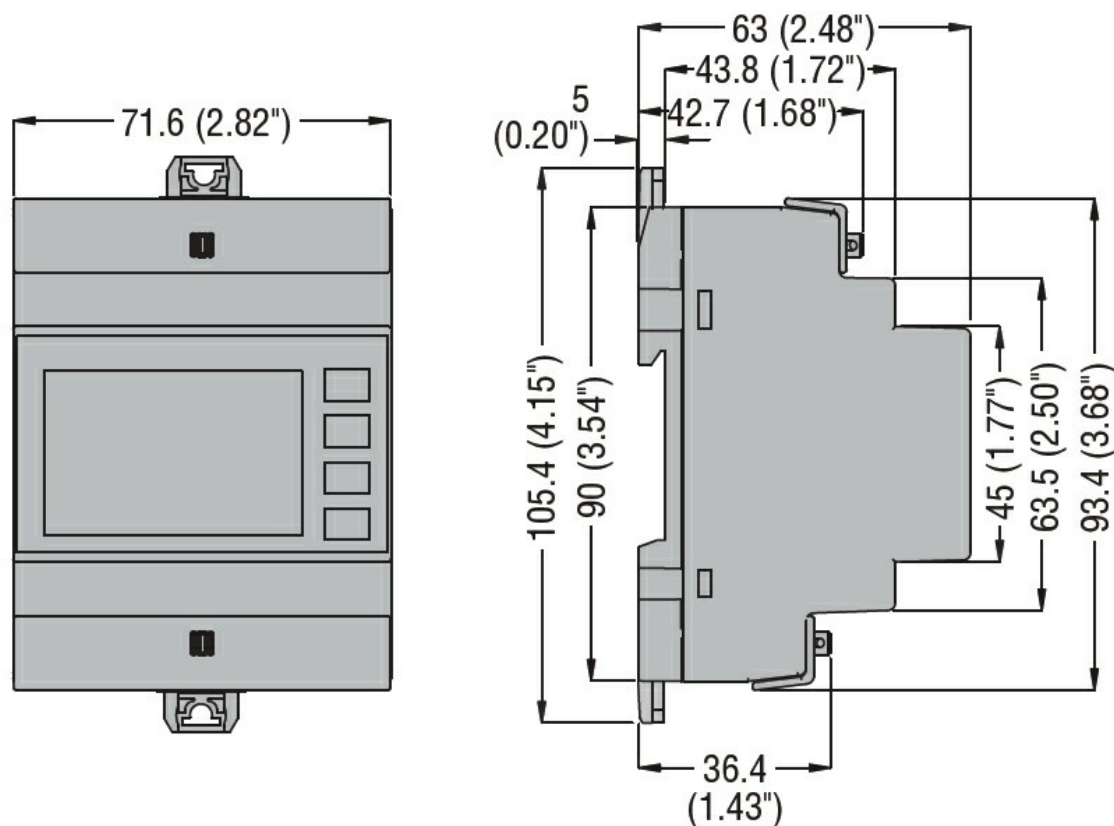
Connection method

Single. two.  
three-phase with  
or without neutral.  
balanced three-  
phase systems

#### Current inputs

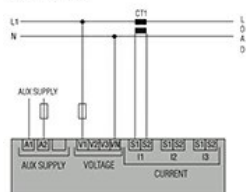
Rated current (Ie)	A	5
Measurement range		0.025...6A
Measurement method		TRMS
Overload capacity		+20% Ie through external CT with 5A secondary

Overload peak	A	50A for 1s
<b>Accuracy</b>		
VLN voltage		±0.5%
VLL voltage		±0.5%
Current		±0.5%
Frequency		±0.05%
Active power		±1%
Active energy		Class 1 (IEC/EN 62053-21)
Reactive energy		Class 2 (IEC/EN 62053-23)
<b>RS485 serial interface</b>		
Baud rate	bps	Programmable 1200...38400
<b>Insulations</b>		
Rated insulation voltage Ui IEC/EN	V	690
Rated impulse withstand voltage Uimp	kV	9.5
Operating frequency withstand voltage	kV	5.2
<b>Functions</b>		
Harmonic analysis		15th order
PLC logic		No
Type of communication port		RS485
Ethernet-RS485 gateway function		No
<b>Mechanical features</b>		
Housing type		Polyamide
Terminals type		Fixed
Conductor cross section	min mm <sup>2</sup>	0.2
	Max mm <sup>2</sup>	4
	min AWG	24
	Max AWG	12
Tightening torque (Max)	Nm	0.8
	lbin	7
Fixing		Din rail
Weight	g	294
<b>Ambient conditions</b>		
Temperature		
Operating temperature	min °C	-20
	max °C	+60
Storage temperature	min °C	-30
	max °C	+80
Relative humidity	%	<90
Maximum Pollution degree		2
Protection degree		IP30
<b>Dimensions</b>		

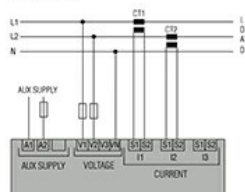


## Wiring diagrams

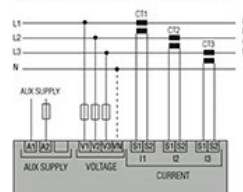
### Single-phase



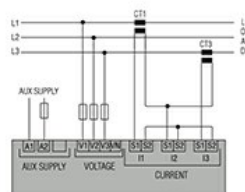
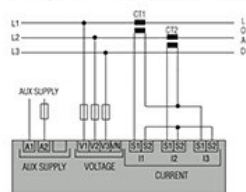
### Two-phase



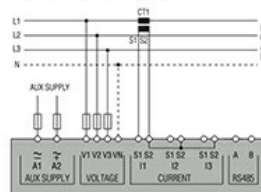
### Three-phase with or without neutral



### Three-phase without neutral in ARON connection



### Balanced 3-phase connection with or without neutral



CODE	AUX SUPPLY
DMG100-110-200-210-300	100...240VAC 110...250VDC
DMG6...	100...440VAC 110...250VDC
DMG7000-7500-8000-9000	100...240VAC 110...250VDC

### RS485 for DMG110 and DMG210



### RS485 for DMG610



### RS485 for DMG7500 and DMG9000



## Certifications and compliance

### Compliance

CSA 22.2 n°61010-1

IEC/EN 61000-6-2

IEC/EN 61000-6-3

IEC/EN 61010-1

IEC/EN 61010-2-030

	UL61010-1
Certificates	
	cULus
	EAC
	GOST
	RCM
ETIM classification	
ETIM 8.0	EC002301 - Multifunction measuring instrument