



Modular LCD  
multimeters.  
expandable  
DMG300  
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 85
	Max	VAC 264
DC	min	VDC 93.5
	Max	VDC 300

Operational frequency

min	Hz	45
max	Hz	66

Power consumption

Max	VA	3.2
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Power dissipation Max

W	1.3
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#### Measuring voltage inputs

Rated voltage (Ue)

phase-phase	VAC	690
phase-neutral	VAC	400

Operating voltage range

phase-phase	VAC	20...830
phase-neutral	VAC	10...480

Voltage inputs operational frequency

min	Hz	45
max	Hz	66

Voltage inputs measurement method

True RMS

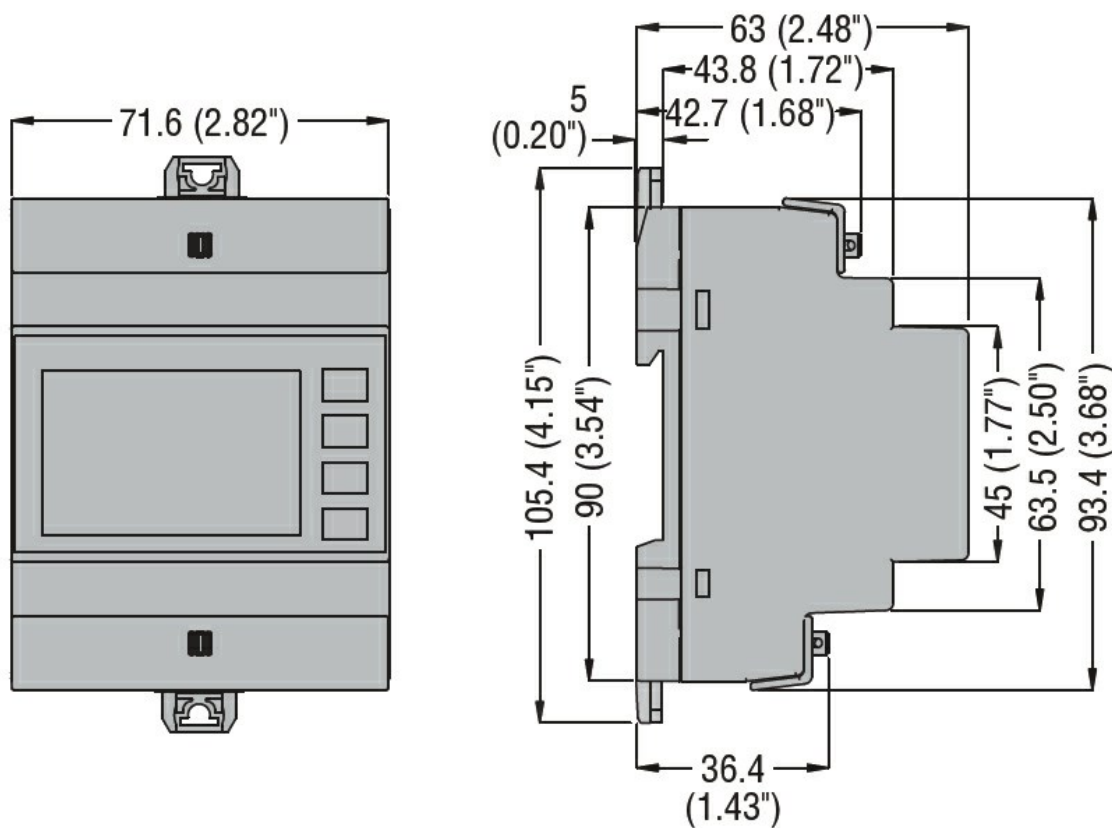
Connection method

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

#### Current inputs

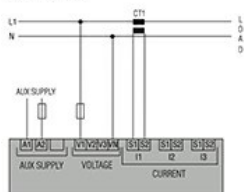
Rated current (Ie)	A	1 / 5
Measurement range		0.01...1.2 / 0.01...6
Measurement method		TRMS

Overload capacity				+20% Ie through external CT with 5A secondary
Overload peak		A		50A for 1s
<b>Accuracy</b>				
	VLN voltage			±0.2%
	VLL voltage			±0.2%
	Current			±0.2%
	Frequency			±0.05%
	Active power			±0.5%
	Active energy			Class 0.5s (IEC/EN 62053-22)
	Reactive energy			Class 2 (IEC/EN 62053-23)
<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				31st order
PLC logic				No
Type of communication port				No
Ethernet-RS485 gateway function				Yes
<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		320
<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>				

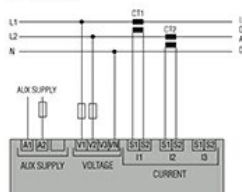


## Wiring diagrams

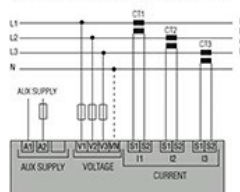
### Single-phase



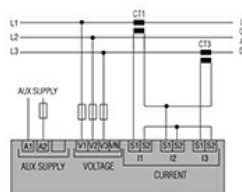
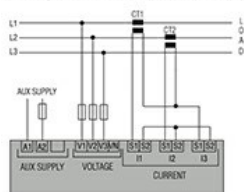
### Two-phase



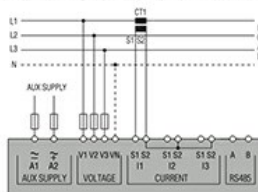
### Three-phase with or without neutral



### 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 C22.2 n°14  
IEC/EN 61000-6-2  
IEC/EN 61000-6-4  
IEC/EN 61010-1  
UL508

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Certificates

cULus

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EAC

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GOST

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RCM

ETIM classification

ETIM 8.0

EC002301 -  
Multifunction  
measuring  
instrument