



Flush-mount LCD multimeters. expandable DMG615 Three-phase + neutral

Product designation

Product type designation

Type

**Auxiliary supply Us**

Auxiliary rated supply voltage AC	VAC	100...440
Auxiliary rated supply voltage DC	VDC	120...250
Auxiliary operating voltage range		
AC		
	min	VAC 90
	Max	VAC 484
DC		
	min	VDC 93.5
	Max	VDC 300

Operational frequency

min	Hz	45
max	Hz	66

Power consumption

Max	VA	9.5
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Power dissipation Max

W	3.5
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**Measuring voltage inputs**

Rated voltage (Ue)			
	phase-phase	VAC	600
	phase-neutral	VAC	300

Operating voltage range

phase-phase	VAC	50...720
phase-neutral	VAC	30...360

Voltage inputs operational frequency

min	Hz	45
max	Hz	66

Voltage inputs measurement method

True RMS

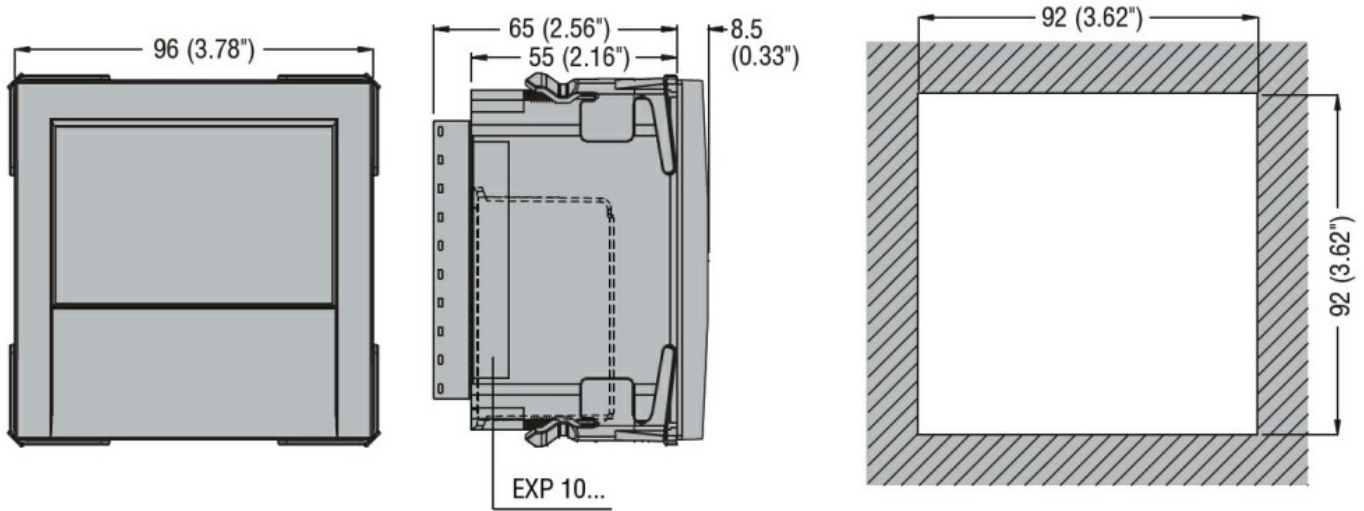
Connection method

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

**Current inputs**

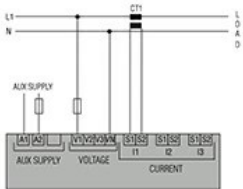
Rated current (Ie)	A	1A/5A
Measurement range		0.01...1.2 / 0.01...6
Measurement method		TRMS
Overload capacity		+20% Ie by external CT with 5A secondary

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	600
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		Removable
Conductor cross section		
	min	mm <sup>2</sup> 0.2
	Max	mm <sup>2</sup> 2.5
	min	AWG 24
	Max	AWG 12
Tightening torque (Max)		
	Nm	0.5
	lbin	4.5
Fixing		Flush-mounting
Weight	g	350
<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		IP54
<b>Dimensions [mm (in)]</b>		

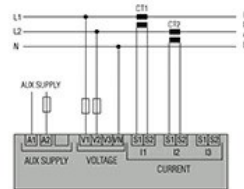


### Wiring diagrams

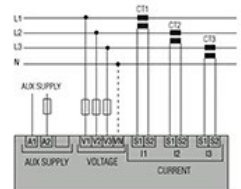
#### Single-phase



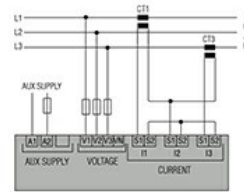
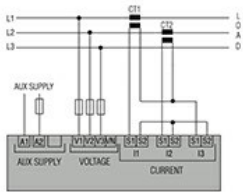
#### Two-phase



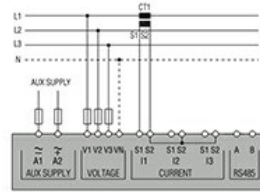
#### Three-phase with or without neutral



#### 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



### Certifications and compliance

#### Compliance

IEC/EN 61000-6-2  
IEC/EN 61000-6-3  
IEC/EN 61010-1  
IEC/EN 61010-2-030

#### Certificates

cULus  
EAC  
RCM

### ETIM classification

ETIM 8.0

EC002301 -  
Multifunction  
measuring  
instrument