



Flush-mount LCD multimeters, expandable DMG620 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
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Connection method	Single, two, three-phase with or without neutral, balanced three-phase system
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**Current inputs**

Rated current (Ie)	A	1A/5A
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Measurement range	0.025...6A
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Measurement method	TRMS
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Overload capacity	+20% Ie by external CT with 5A secondary
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Overload peak	A	50A for 1s
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### Accuracy

VLN voltage	±0.2%
VLL voltage	±0.2%
Current	±0.2%
Frequency	±0.05%
Active power	±0.5% Class 0.5s
Active energy	Class 0.5s (IEC/EN 62053-22)
Reactive energy	Class 2 (IEC/EN 62053-23)

### Insulations

Rated insulation voltage Ui IEC/EN	V	600
Rated impulse withstand voltage Uimp	kV	9.5
Operating frequency withstand voltage	kV	5.2

### Functions

Harmonic analysis	15th order
PLC logic	No
Type of communication port	Ethernet
Ethernet-RS485 gateway function	No

### Mechanical features

Housing type	Plyamide	
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

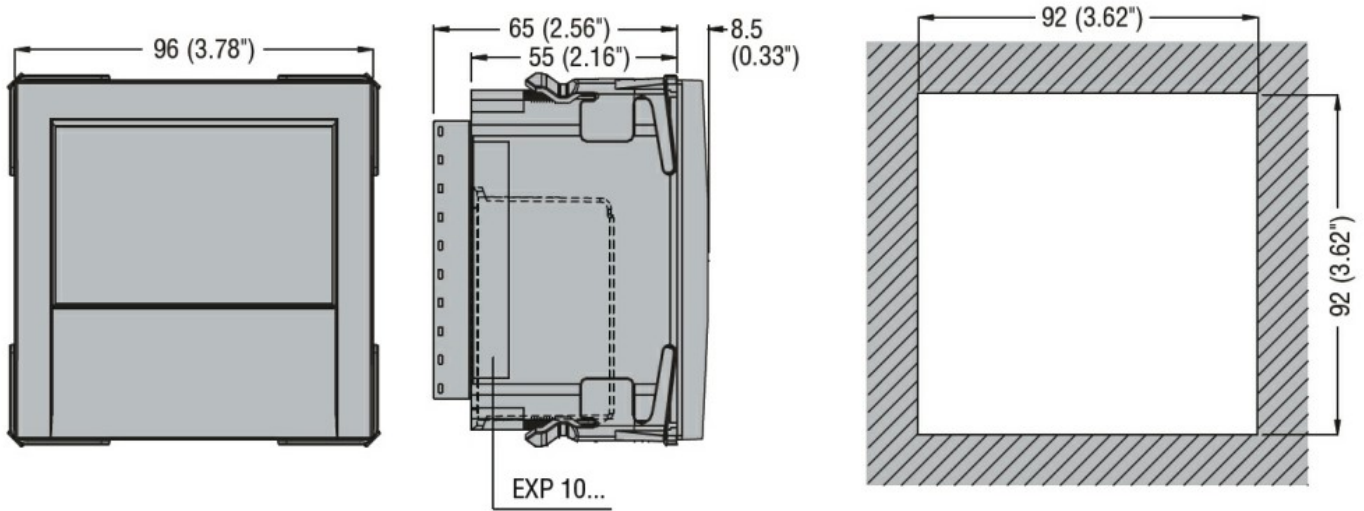
Tightening torque (Max)	
	Nm 0.5
	lbin 4.5
Fixing	Flush-mounting
Weight	g 350

### Ambient conditions

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

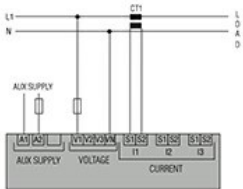
### Dimensions

FLUSH-MOUNT LCD MULTIMETER, EXPANDABLE. HIGH ACCURACY MEASURING OF ACTIVE ENERGY WITH CLASS 0.5S. BACKLIGHT ICON LCD, 72X46MM/2.8X1.8", HARMONIC ANALYSIS, AUXILIARY SUPPLY 100-440VAC/120-250VDC, FRONT OPTICAL PORT AND ETHERNET PORT

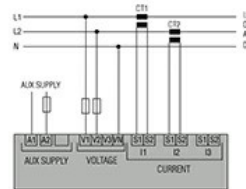


**Wiring diagrams**

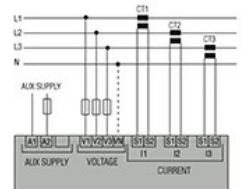
Single-phase



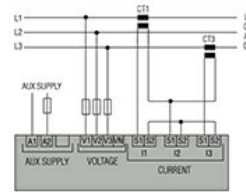
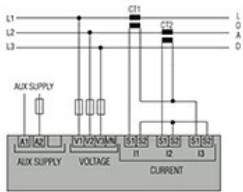
Two-phase



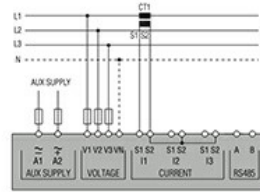
Three-phase with or without neutral



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**

- EAC
- RCM

**ETIM classification**

ETIM 8.0

EC002301 -  
Multifunction  
measuring  
instrument