



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
Auxiliary operating voltage range 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 ²	0.2
	Max mm ²	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

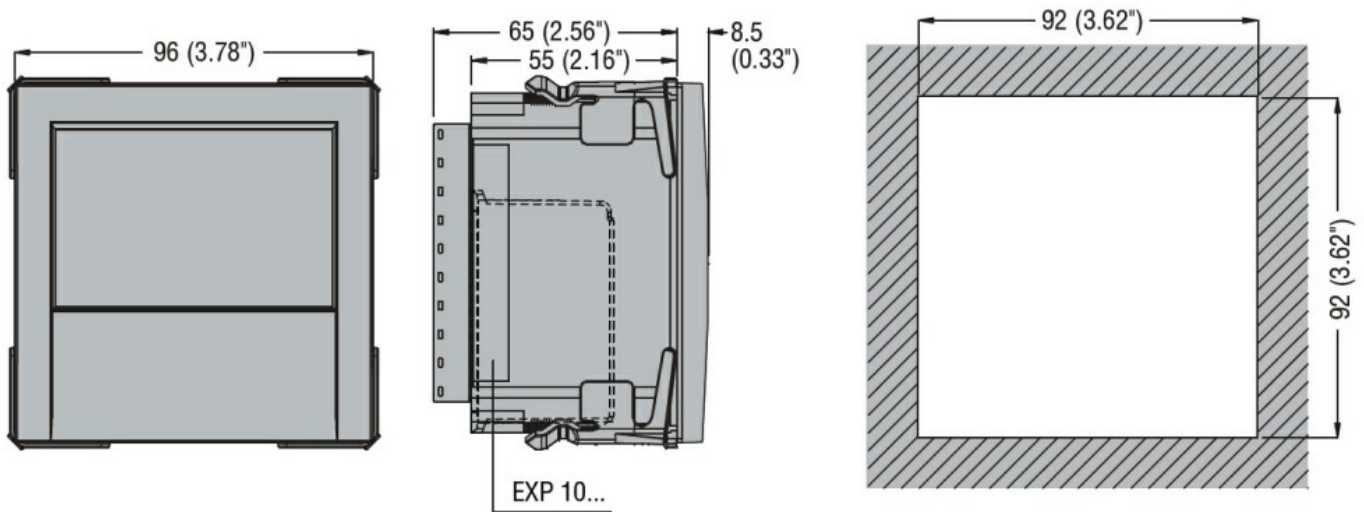
Storage temperature

min	°C	-30
max	°C	+80

Relative humidity	%	<90
Maximum Pollution degree		2
Protection degree		IP54

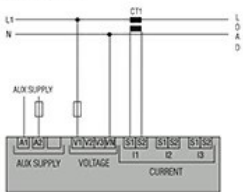
Dimensions

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

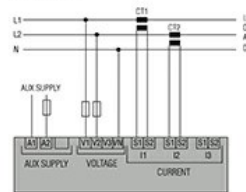


Wiring diagrams

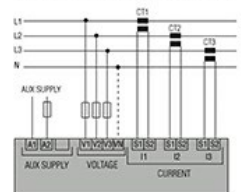
Single-phase



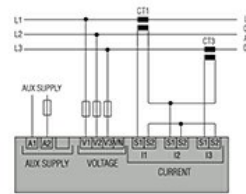
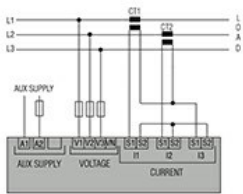
Two-phase



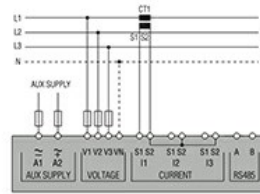
Three-phase with or without neutral



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