



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
Measurement range		0.025...6A
Measurement method		TRMS
Overload capacity		+20% Ie by external CT with 5A secondary
Overload peak	A	50A for 1s

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

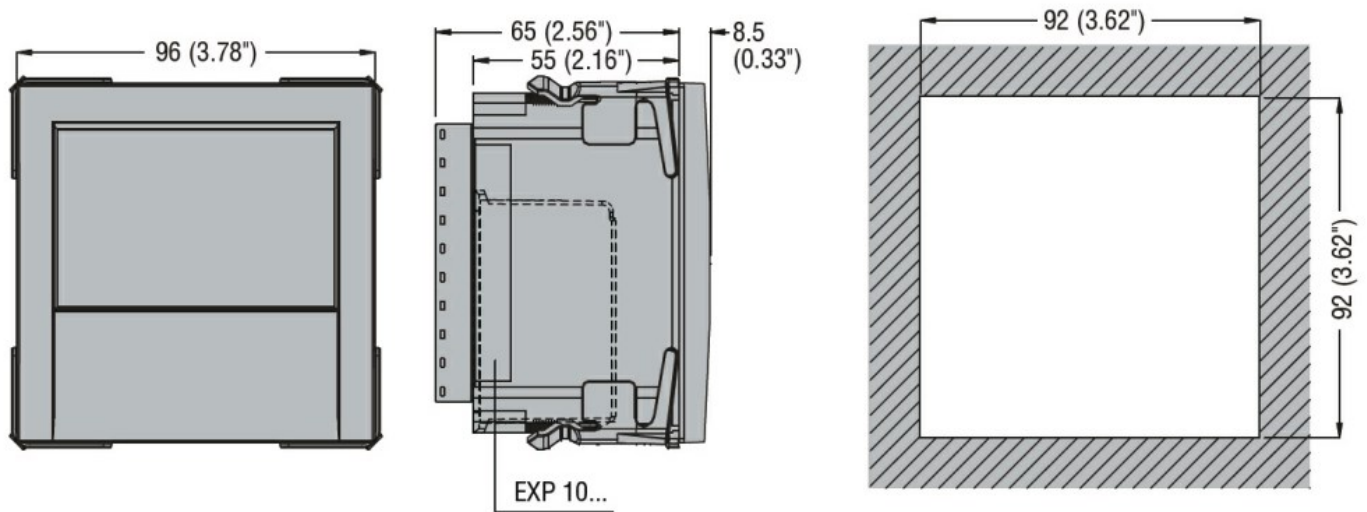
Fixing	Flush-mounting
Weight	g 350

Ambient conditions

Temperature	Operating temperature	min	°C	-20
		max	°C	+60
	Storage temperature	min	°C	-30
		max	°C	+80

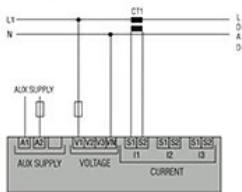
Relative humidity	%	<90
Maximum Pollution degree		2
Protection degree		IP54

Dimensions

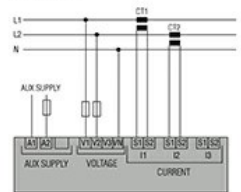


Wiring diagrams

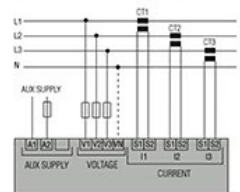
Single-phase



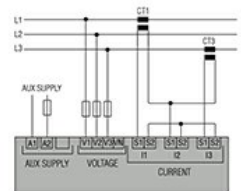
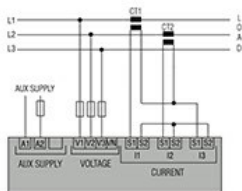
Two-phase



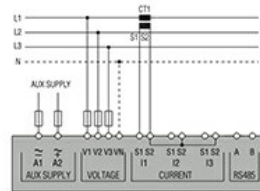
Three-phase with or without neutral



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