



Flush-mount LCD
multimeters.
expandable
DMG800
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	12...48		
Auxiliary operating voltage range	AC	min	VAC	90
		Max	VAC	484
	DC	min	VDC	9
		Max	VDC	70

Operational frequency

min	Hz	45
max	Hz	66

Power consumption

Max	VA	3.9
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Power dissipation Max

W	3.4
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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

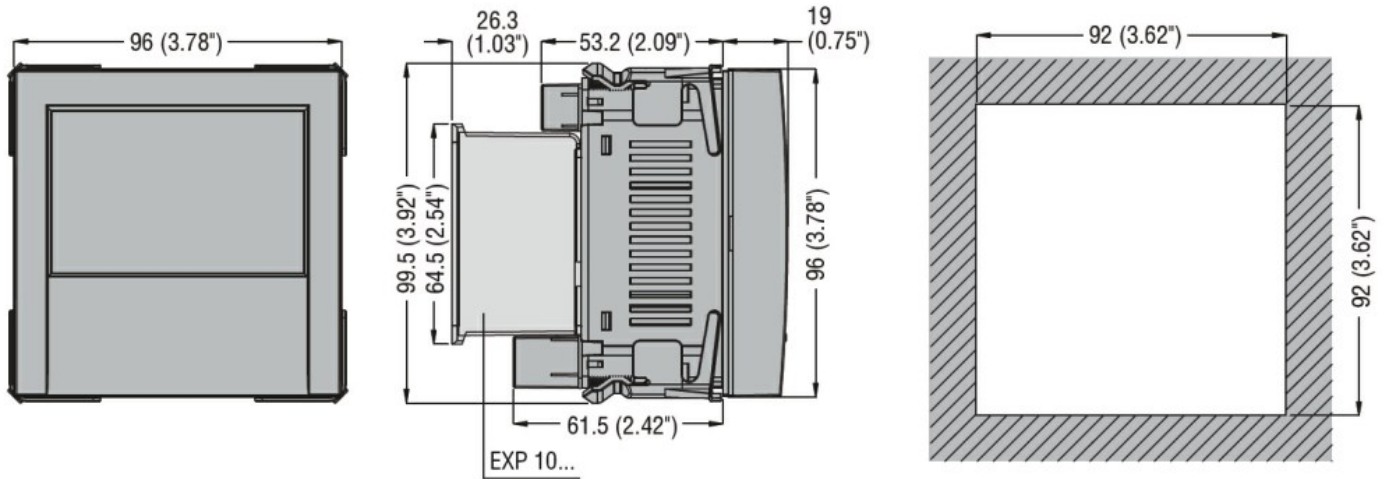
Connection method

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

Current inputs

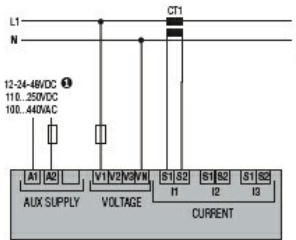
Rated current (Ie)	A	1A/5A
Measurement range		0.01...1.2 / 0.01...6
Measurement method		TRMS
Overload capacity		+20% Ie by external CT with 5A secondary

Overload peak		A	50A for 1s
Accuracy			
	VLN voltage		±0.2%
	VLL voltage		±0.2%
	Current		±0.2%
	Frequency		±0.05%
	Active power		±0.5% f.s.
	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	690
Rated impulse withstand voltage Uimp		kV	9.5
Operating frequency withstand voltage		kV	5.2
Mechanical features			
Housing type			Polyamide
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	510
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			IP65
Dimensions [mm (in)]			

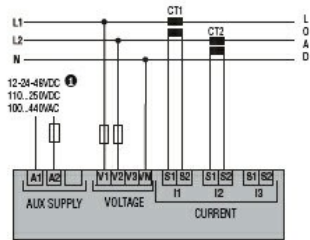


Wiring diagrams

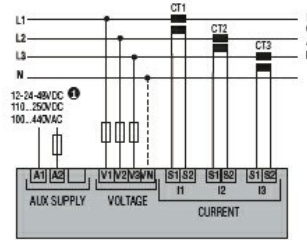
MULTIMETERS
Single-phase



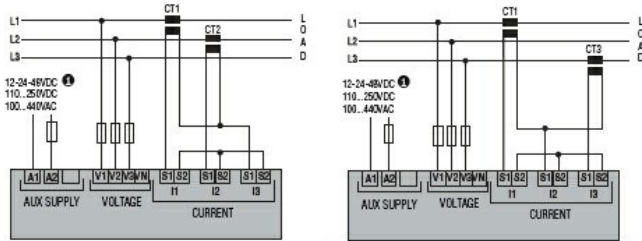
Two-phase



Three-phase with or without neutral



Three-phase without neutral in ARON connection



Certifications and compliance

Compliance

CSA C22.2 n°14

IEC/EN 61000-6-2

IEC/EN 61000-6-4

IEC/EN 61010-1

UL508

Certificates

cULus

EAC

GOST

RCM

ETIM classification

ETIM 8.0

EC002301 -
Multifunction
measuring
instrument