



Flush-mount LCD
multimeters.
expandable
DMG800
Three-phase +
neutral

Product designation

Product type designation

Type

Auxiliary supply U_s

Auxiliary rated supply voltage AC	VAC	100...440
Auxiliary rated supply voltage DC	VDC	110...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	3.9
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Power dissipation Max

W	3.4
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Measuring voltage inputs

Rated voltage (U_e)	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

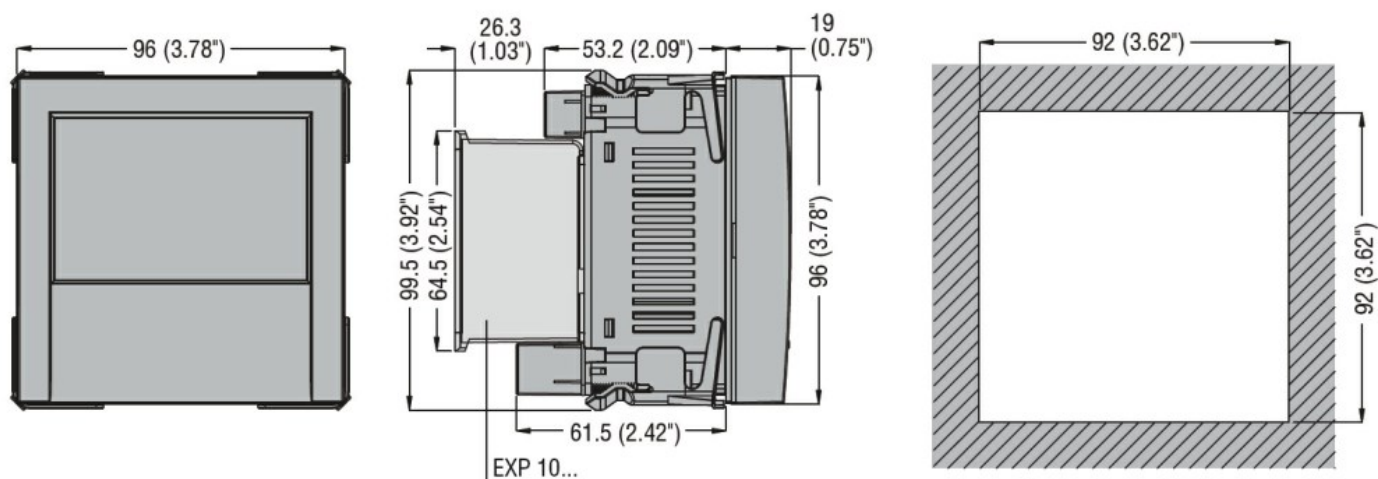
True RMS
Single. two.
three-phase with
or without neutral.
balanced three-
phase system

Connection method

Current inputs

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

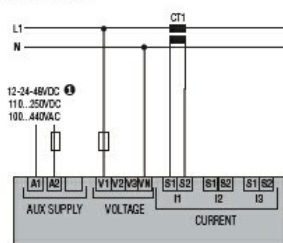
Overload peak	A	50A for 1s
Accuracy		
VLN voltage		±0.2%
VLL voltage		±0.2%
Current		±0.2%
Frequency		±0.05%
Active power		±0.5% f.s.
Active energy		Class 0.5s (IEC/EN 62053-22)
Reactive energy		Class 2 (IEC/EN 62053-23)
Insulations		
Rated insulation voltage Ui IEC/EN	V	690
Rated impulse withstand voltage 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		



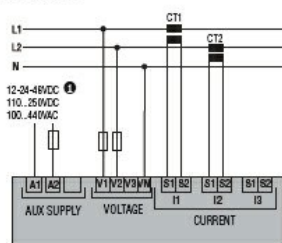
Wiring diagrams

MULTIMETERS

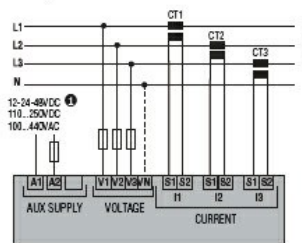
Single-phase



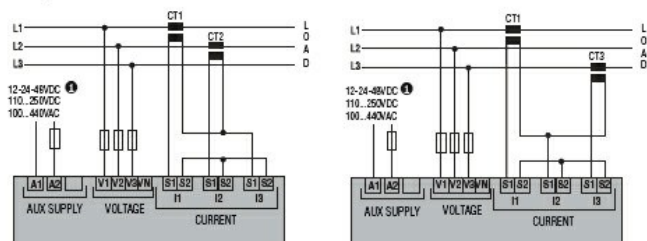
Two-phase



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