



Flush-mount LCD  
multimeters.  
expandable  
DMG900  
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 and 360
max	Hz	66 and 440

Voltage inputs measurement method

True RMS

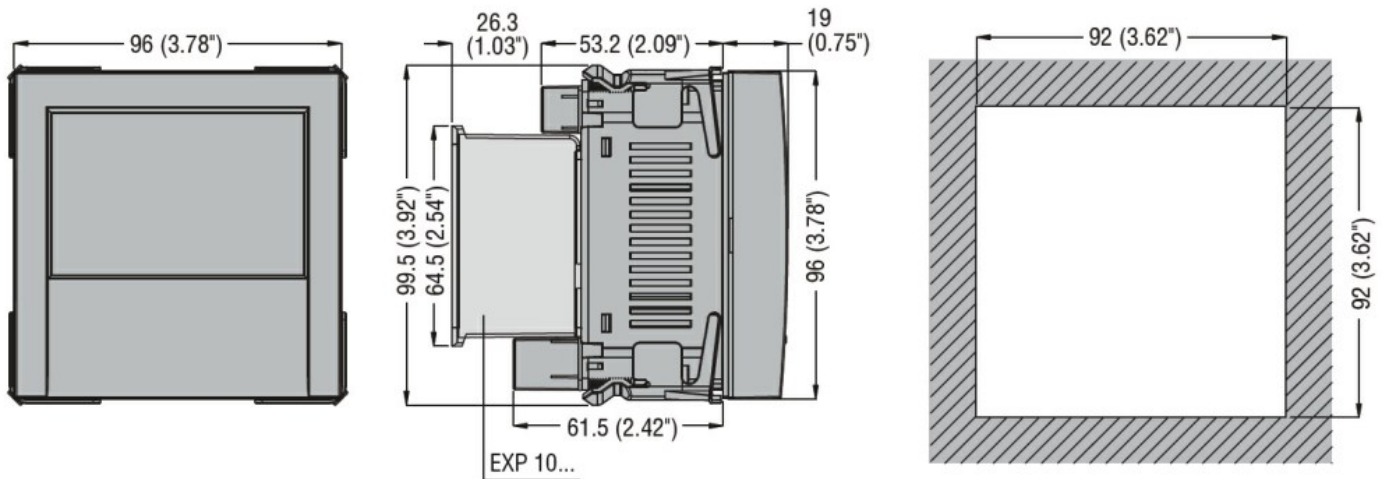
Connection method

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

### Current inputs

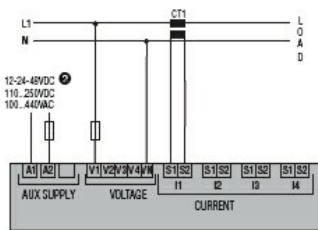
Rated current (Ie)	A	1A/5A
Measurement range		0.002...1.2 / 0.01...10
Measurement method		TRMS
Overload capacity		+20% Ie by external CT with 5A secondary

Overload peak		A	50A for 1s
<b>Accuracy</b>			
	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)
<b>Insulations</b>			
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	9.5
Operating frequency withstand voltage		kV	5.2
<b>Mechanical features</b>			
Housing type			Polyamide
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	580
<b>Ambient conditions</b>			
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
<b>Dimensions [mm (in)]</b>			

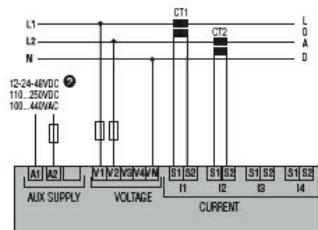


**Wiring diagrams**

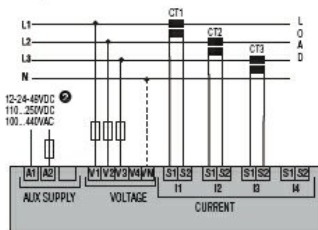
Single-phase



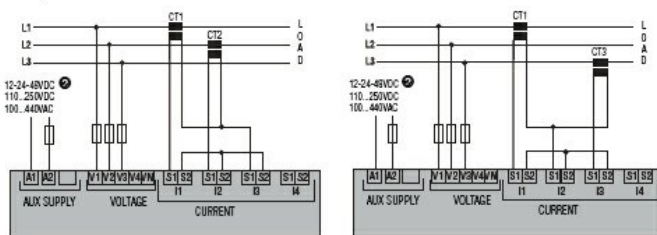
Two-phase



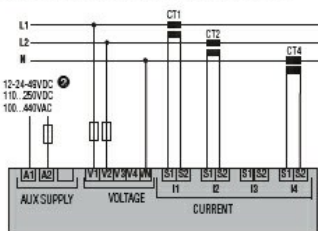
Three-phase with or without neutral



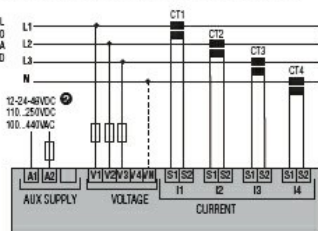
Three-phase without neutral in ARON connection



Two-phase with neutral. Measurement of neutral current and neutral-earth voltage



Three-phase with neutral. Measurement of neutral current and neutral-earth voltage



⊕ For DMG 900... D048 only.

**Certifications and compliance**

**Compliance**

CSA C22.2 n°14  
IEC/EN 61000-6-2

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IEC/EN 61000-6-4

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IEC/EN 61010-1

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UL508

Certificates

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cULus

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EAC

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GOST

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RCM

ETIM classification

ETIM 8.0

EC002301 -  
Multifunction  
measuring  
instrument