



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
-------------------	--------	-----

Power dissipation Max	W	3.4
-----------------------	---	-----

**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**

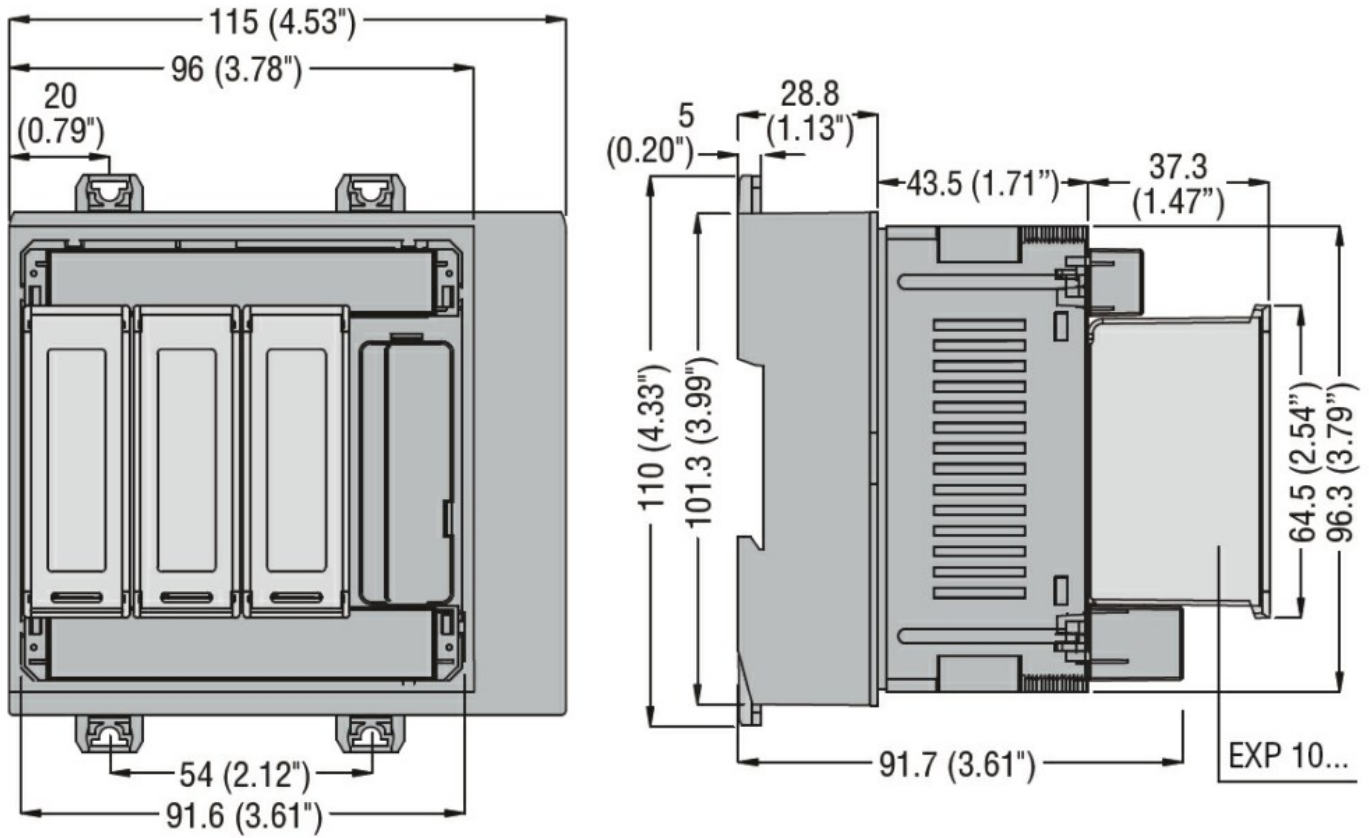
Rated current (Ie)	A	1A/5A
--------------------	---	-------

Measurement range		0.002...1.2 / 0.01...10
-------------------	--	-------------------------

Measurement method		TRMS
--------------------	--	------

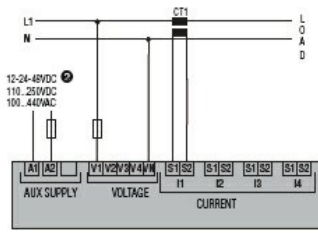
Overload capacity		+20% Ie by external CT with 5A secondary
-------------------	--	------------------------------------------

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	590
<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>			

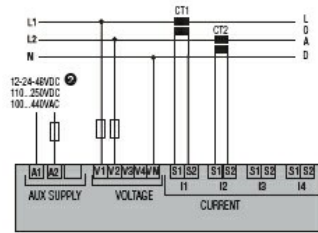


Wiring diagrams

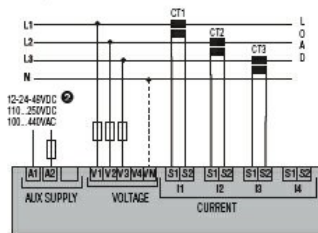
Single-phase



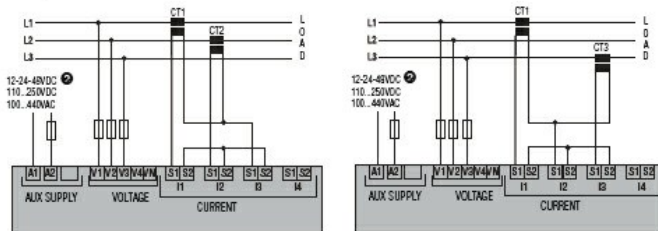
Two-phase



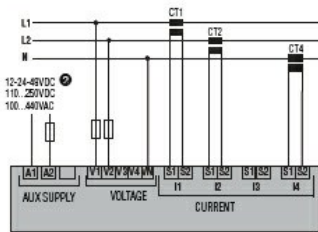
Three-phase with or without neutral



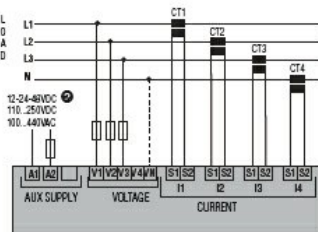
Three-phase without neutral in ARON connection



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  
IEC/EN 61000-6-4  
IEC/EN 61010-1  
UL508

### Certificates

cULus  
EAC  
GOST  
RCM

## ETIM classification

ETIM 8.0

EC002301 -  
Multifunction  
measuring  
instrument