



Product designation

Product type designation

Type

Panel m. color  
glcd mult.  
DMG7000  
Three-phase +  
neutral

### Auxiliary supply Us

Auxiliary rated supply voltage AC	VAC	100...240
Auxiliary rated supply voltage DC	VDC	110...250
Auxiliary operating voltage range		
AC		
	min	VAC 90
	Max	VAC 264
DC		
	min	VDC 100
	Max	VDC 300

Operational frequency			
	min	Hz	45
	max	Hz	66

Power consumption	Max	VA	15
-------------------	-----	----	----

Power dissipation Max		W	6
-----------------------	--	---	---

### Measuring voltage inputs

Rated voltage (Ue)			
	phase-phase	VAC	600
	phase-neutral	VAC	347

Operating voltage range			
	phase-phase	VAC	40...830
	phase-neutral	VAC	5...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. Three-phase ARON.
-------------------	--	--	---

### Current inputs

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

Measurement range		0.004...6
-------------------	--	-----------

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

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

Overload peak		A	120A for 0.5s
<b>Accuracy</b>			
	VLN voltage		Class 0.2 (IEC/EN 61557-12), V:50-480V~
	VLL voltage		Class 0.2 (IEC/EN 61557-12), V:87-830V~
	Current		Class 0.2 (IEC/EN 61557-12), In:5A~
	Frequency		Class 0.02 (IEC/EN 61557-12)
	Active power		Class 0.5 (IEC/EN 61557-12)
	Reactive power		Class 1 (IEC/EN 61557-12)
	Active energy		Class 0.5s (IEC/EN 62053-22)
	Reactive energy		Class 1 (IEC/EN 62053-24)
	THD		Class 5 (IEC/EN 61557-12)
	2nd 15th order harmonics		Class 5 (IEC/EN 61557-12)
<b>Insulations</b>			
	Rated insulation voltage Ui IEC/EN	V	600
	Rated impulse withstand voltage Uimp	kV	9.6
	Operating frequency withstand voltage	kV	5.4
<b>Functions</b>			
	Harmonic analysis		63rd order
	PLC logic		Yes
	Type of communication port		No
	Ethernet-RS485 gateway function		+EXP1012 +EXP1013
	Data logging memory		No
	Neutral/earth current and voltage monitoring		No
	Statistics of network quality according to EN50160		No
	EASY BRANCH support		No
<b>Mechanical features</b>			
	Housing type		Xantar RAL 7035
	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	412

**Ambient conditions**

Temperature

Operating temperature

min	°C	-20
max	°C	+60

Storage temperature

min	°C	-30
max	°C	+80

Relative humidity

% <80

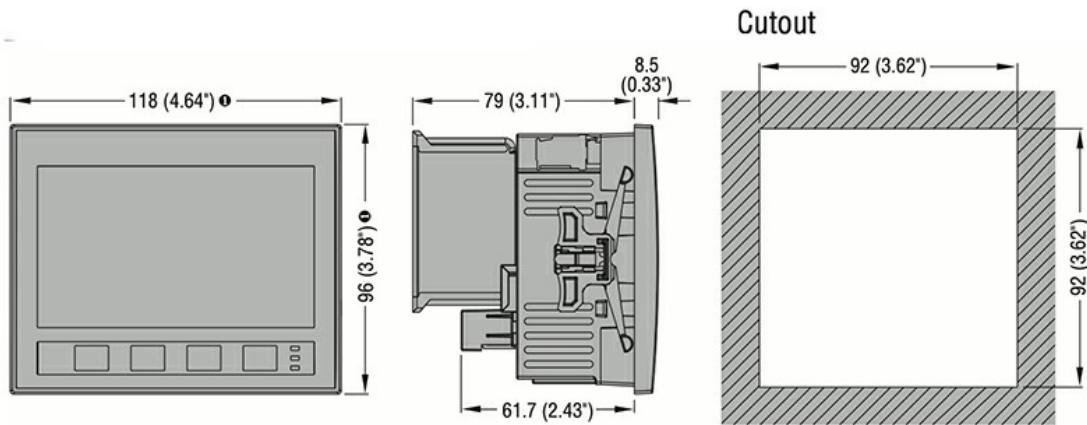
Maximum Pollution degree

2

Protection degree

IP65

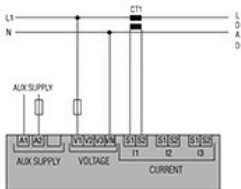
**Dimensions**



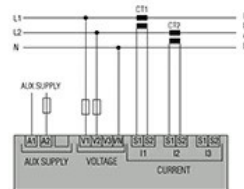
① Dimensions with gasket: 122x100mm/4.80x3.94"

**Wiring diagrams**

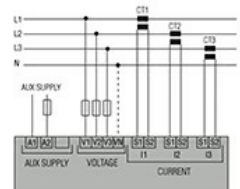
Single-phase



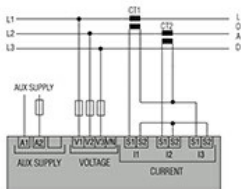
Two-phase



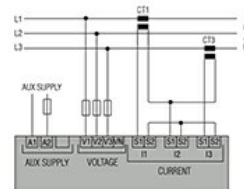
Three-phase with or without neutral



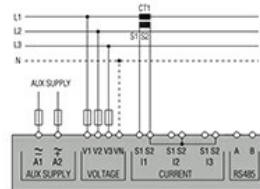
Three-phase without neutral in ARON connection



Balanced 3-phase connection with or without neutral



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

RS485 for DMG110 and DMG210



RS485 for DMG610



RS485 for DMG7500 and DMG9000



**Certifications and compliance**

Compliance

IEC/EN/BS 61000-6-2

IEC/EN/BS 61000-6-4

IEC/EN/BS 61010-1

Certificates

CE

cETLus

EAC

UKCA

ETIM classification

ETIM 8.0

EC002301 -  
Multifunction  
measuring  
instrument