



Product designation

Product type designation

Type

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

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
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Power dissipation Max

W	6
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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
Accuracy		
Measurement conditions (T +23°C ±1°C / Rel. Humidity 45 ±15% R.H.)		
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/BS 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)
Insulations		
Rated insulation voltage Ui IEC/EN	V	600
Rated impulse withstand voltage Uimp	kV	9.6
Operating frequency withstand voltage	kV	5.4
Mechanical features		
Housing type		Xantar RAL 7035
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	412
Ambient conditions		
Temperature		
Operating temperature		
	min	°C -20
	max	°C +60
Storage temperature		
	min	°C -30
	max	°C +80
Relative humidity	%	<80

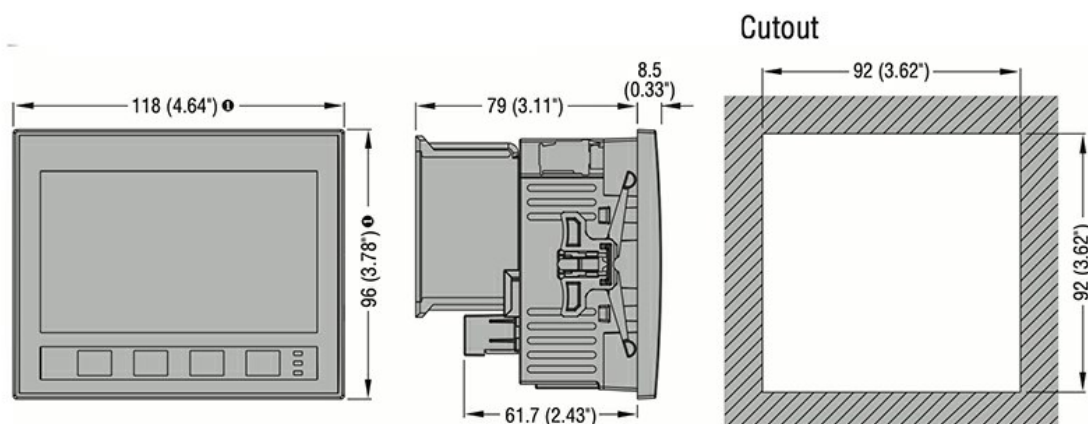
Maximum Pollution degree

2

Protection degree

IP65

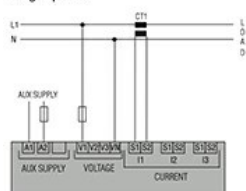
Dimensions



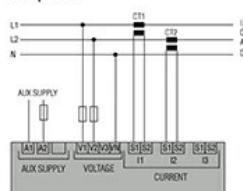
① Dimensions with gasket: 122x100mm/4.80x3.94".

Wiring diagrams

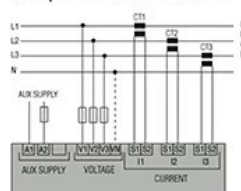
Single-phase



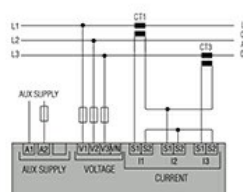
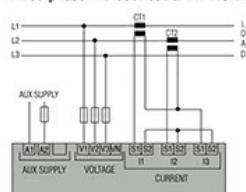
Two-phase



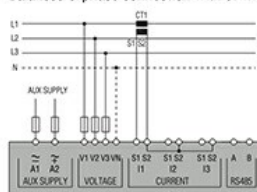
Three-phase with or without neutral



Three-phase without neutral in ARON connection



Balanced 3-phase connection with or without neutral



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

EAC

UKCA

ETIM classification

ETIM 8.0

EC002301 -
Multifunction
measuring
instrument