



Product designation

Product type designation

Type

Panel m. color
glcd mult.,
RS485
DMG7500
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
Single. Two.
Three-phase with
or without neutral.
Balanced three-
phase system.
Three-phase
ARON.

Connection method

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), I _n :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)

RS485 serial interface

Baud rate	bps	Programmable 1200...115200
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Insulations

Rated insulation voltage U _i IEC/EN	V	600
Rated impulse withstand voltage U _{imp}	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

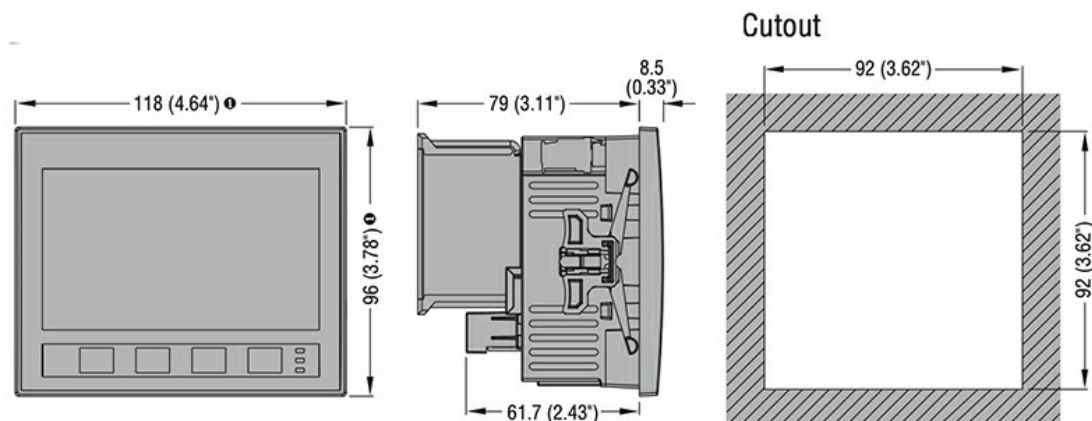
Fixing	Flush-mounting	
Weight	g	420

Ambient conditions

Temperature	Operating temperature
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	min	°C	-20
	max	°C	+60
Storage temperature			
	min	°C	-30
	max	°C	+80
Relative humidity		%	<80
Maximum Pollution degree			2
Protection degree			IP65

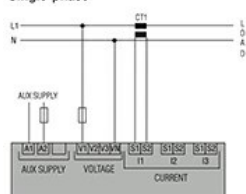
Dimensions



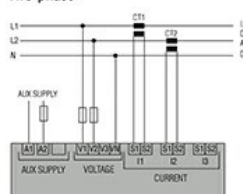
① Dimensions with gasket: 122x100mm/4.80x3.94".

Wiring diagrams

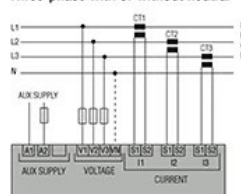
Single-phase



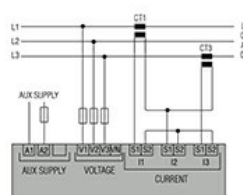
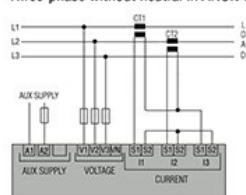
Two-phase



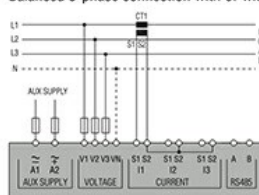
Three-phase with or without neutral



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