



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
Accuracy			
	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)

Insulations

Rated insulation voltage Ui IEC/EN	V	600
Rated impulse withstand voltage Uimp	kV	9.6
Operating frequency withstand voltage	kV	5.4

Functions

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

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

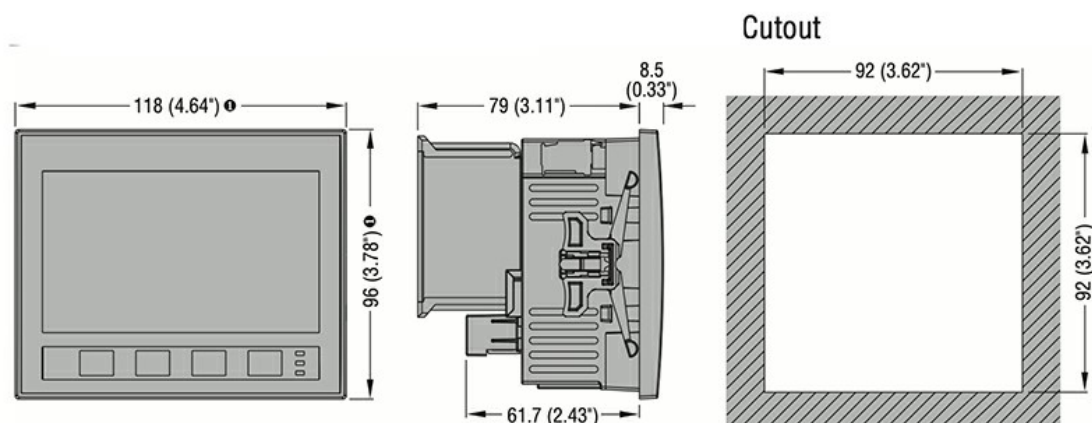
Ambient conditions

Temperature	Operating temperature	min °C -20 max °C +60
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Storage temperature

	min	°C	-30
	max	°C	+80
Relative humidity		%	<80
Maximum Pollution degree			2
Protection degree			IP65

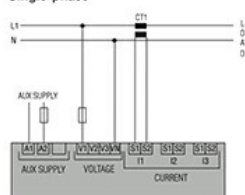
Dimensions



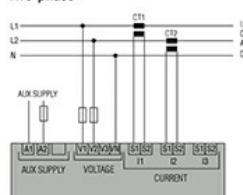
① Dimensions with gasket: 122x100mm/4.80x3.94".

Wiring diagrams

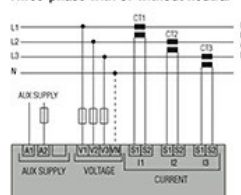
Single-phase



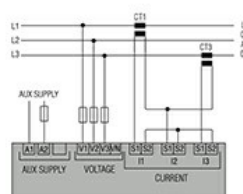
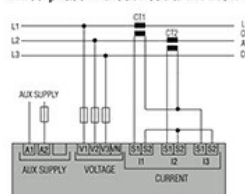
Two-phase



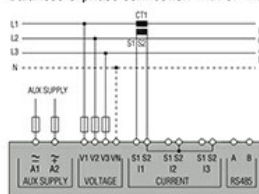
Three-phase with or without neutral



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

CSA 22.2 No 61010-2-030
CSA C22.2 No 61010-1
IEC/EN/BS 61000-6-2
IEC/EN/BS 61000-6-4
IEC/EN/BS 61010-1
IEC/EN/BS 61010-2-030
UL61010-1
UL61010-2-030

Certificates

CE

cETLus

EAC

UKCA

ETIM classification

ETIM 8.0

EC002301 -
Multifunction
measuring
instrument