DMG8000

POWER ANALYZER WITH WIDESCREEN COLOUR LCD. AUXILIARY SUPPLY 100...240VAC. EXPANDABLE WITH 3 EXP... MODULES, BUILT-IN ETHERNET PORT, DATA MEMORY FOR LOGGING, COMPATIBLE WITH EASY BRANCH POWER MONITORING SYSTEM



Product designation			Panel m. color glcd mult., Ethernet
Product type designation			DMG8000
Type			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

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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			Ethernet
Ethernet-RS485 gateway function			+EXP1012
Data logging memory			Yes
Neutral/earth current and voltage monitoring			No
Statistics of network quality according to EN50160			No
EASY BRANCH support			Yes
Mechanical features			
Housing type			Xantar RAL 7035
Terminals type			Removable
Conductor cross section			
	min	mm²	0.2
	Max	mm²	2.5
	min	AWG	24
	Max	AWG	12
Tightening torque (Max)			
		Nm	0.5
		lbin	4.5

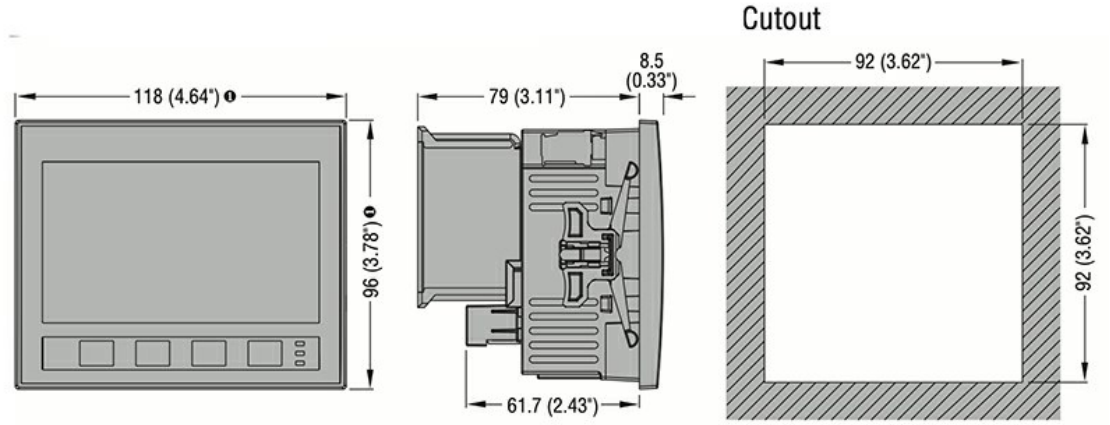
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Fixing			Flush-mounting
Weight		g	420

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

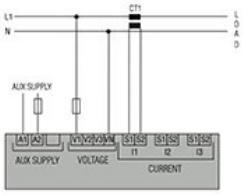
Dimensions



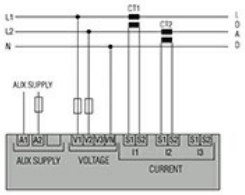
❶ Dimensions with gasket: 122x100mm/4.80x3.94".

Wiring diagrams

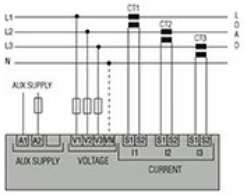
Single-phase



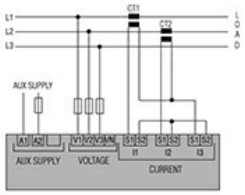
Two-phase

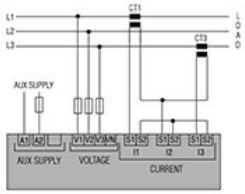


Three-phase with or without neutral

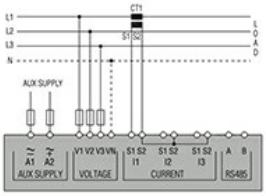


Three-phase without neutral in ARON connection





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	

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	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

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