



Auxiliary supply U_s			
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	93.5
	Max	VDC	300
Operational frequency	min	Hz	45
	max	Hz	66
Power consumption	Max	VA	2.2
Power dissipation Max	W	0.8	
Measuring voltage inputs			
Rated voltage (U_e)	phase-phase	VAC	690
	phase-neutral	VAC	346
Operating voltage range	phase-phase	VAC	90...720
	phase-neutral	VAC	50...415
Voltage inputs operational frequency	min	Hz	45
	max	Hz	66
Voltage inputs measurement method			True RMS
Connection method			Single. two. three-phase with or without neutral. balanced three- phase systems
Current inputs			
Rated current (I_e)	A	5	
Measurement range		0.025...6A	
Measurement method		TRMS	
Overload capacity		+20% I_e through external CT with 5A secondary	
Overload peak	A	50A for 1s	
Accuracy			
	VLN voltage	±0.5%	
	VLL voltage	±0.5%	
	Current	±0.5%	
	Frequency	±0.05%	
	Active power	±1%	

Active energy	Class 1 (IEC/EN 62053-21)
Reactive energy	Class 2 (IEC/EN 62053-23)

RS485 serial interface

Baud rate	bps	Programmable 1200...38400
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Insulations

Rated insulation voltage Ui IEC/EN	V	690
Rated impulse withstand voltage Uimp	kV	9.5
Operating frequency withstand voltage	kV	5.2

Functions

Harmonic analysis	15th order
PLC logic	No
Type of communication port	RS485
Ethernet-RS485 gateway function	No

Mechanical features

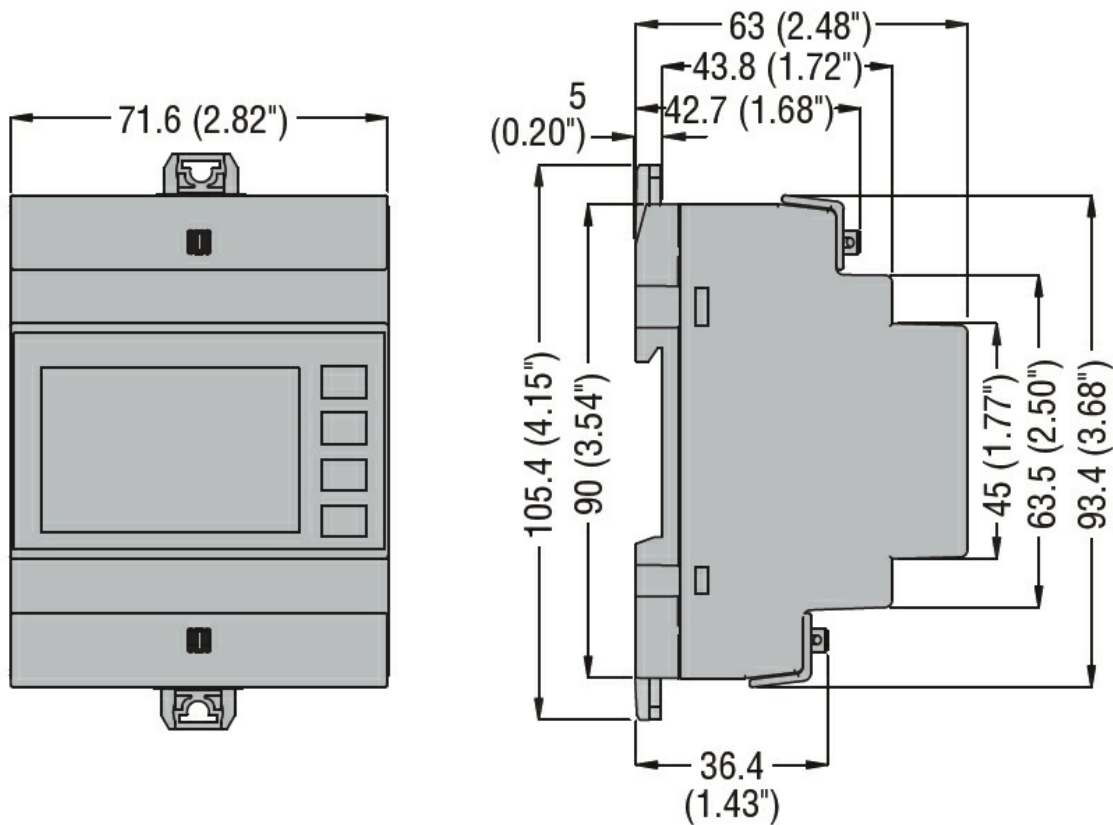
Housing type			Polyamide
Terminals type			Fixed
Conductor cross section			
	min	mm ²	0.2
	Max	mm ²	4
	min	AWG	24
	Max	AWG	12

Tightening torque (Max)	Nm	0.8
	lbin	7
Fixing		Din rail
Weight	g	294

Ambient conditions

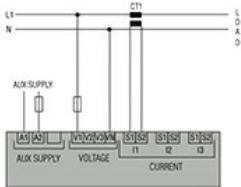
Temperature			
Operating temperature			
	min	°C	-20
	max	°C	+60
Storage temperature			
	min	°C	-30
	max	°C	+80
Relative humidity		%	<90
Maximum Pollution degree			2
Protection degree			IP30

Dimensions

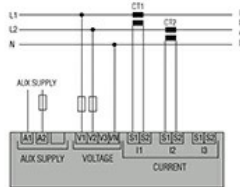


Wiring diagrams

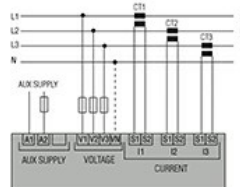
Single-phase



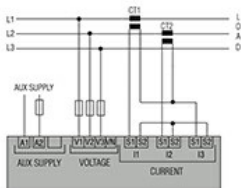
Two-phase



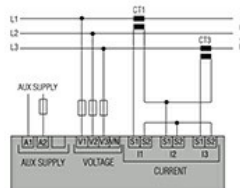
Three-phase with or without neutral



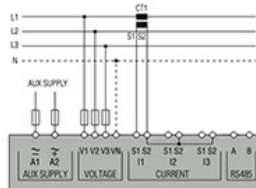
Three-phase without neutral in ARON connection



Two-phase



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 n°61010-1

IEC/EN 61000-6-2

IEC/EN 61000-6-3

IEC/EN 61010-1

IEC/EN 61010-2-030

UL61010-1

Certificates

cULus

EAC

GOST

RCM

ETIM classification

ETIM 8.0

EC002301 -
Multifunction
measuring
instrument