

# MODULÁRNÍ MULTIMETR, PODSVÍCENÝ DISPLEJ, POMOCNÉ NAPÁJENÍ 100-240VAC/115-250VDC



Product designation			Modular LCD multimeters. non expandable
Product type designation			DMG100
Туре			Three-phase + neutral
DIN rail module number			4
Auxiliary supply Us			
Auxiliary rated supply voltage AC		VAC	100240
Auxiliary rated supply voltage DC		VDC	110250
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	1.5
Power dissipation Max		W	0.5
Measuring voltage inputs			
Rated voltage (Ue)			
Rated voltage (Ue)	phase-phase	VAC	690
Rated voltage (Ue)	phase-phase	VAC VAC	690 346
	phase-phase phase-neutral	VAC VAC	690 346
Rated voltage (Ue)  Operating voltage range	phase-neutral	VAC	346
	phase-neutral phase-phase	VAC	346 90720
Operating voltage range	phase-neutral	VAC	346
	phase-neutral  phase-phase phase-neutral	VAC VAC VAC	90720 50415
Operating voltage range	phase-neutral  phase-phase phase-neutral  min	VAC VAC VAC	90720 50415
Operating voltage range  Voltage inputs operational frequency	phase-neutral  phase-phase phase-neutral	VAC VAC VAC	346 90720 50415 45 66
Operating voltage range	phase-neutral  phase-phase phase-neutral  min	VAC VAC VAC	346 90720 50415 45 66 True RMS
Operating voltage range  Voltage inputs operational frequency	phase-neutral  phase-phase phase-neutral  min	VAC VAC VAC	346 90720 50415 45 66 True RMS Single. two.
Operating voltage range  Voltage inputs operational frequency  Voltage inputs measurement method	phase-neutral  phase-phase phase-neutral  min	VAC VAC VAC	346 90720 50415 45 66 True RMS Single. two. three-phase with
Operating voltage range  Voltage inputs operational frequency	phase-neutral  phase-phase phase-neutral  min	VAC VAC VAC	90720 50415 45 66 True RMS Single. two. three-phase with or without neutral.
Operating voltage range  Voltage inputs operational frequency  Voltage inputs measurement method	phase-neutral  phase-phase phase-neutral  min	VAC VAC VAC	346  90720 50415  45 66  True RMS  Single. two. three-phase with or without neutral. balanced three-
Operating voltage range  Voltage inputs operational frequency  Voltage inputs measurement method  Connection method	phase-neutral  phase-phase phase-neutral  min	VAC VAC VAC	90720 50415 45 66 True RMS Single. two. three-phase with or without neutral.
Operating voltage range  Voltage inputs operational frequency  Voltage inputs measurement method  Connection method  Current inputs	phase-neutral  phase-phase phase-neutral  min	VAC VAC VAC Hz Hz	90720 50415  45 66 True RMS Single. two. three-phase with or without neutral. balanced three-phase systems
Operating voltage range  Voltage inputs operational frequency  Voltage inputs measurement method  Connection method  Current inputs  Rated current (le)	phase-neutral  phase-phase phase-neutral  min	VAC VAC VAC	90720 50415  45 66 True RMS Single. two. three-phase with or without neutral. balanced three-phase systems
Operating voltage range  Voltage inputs operational frequency  Voltage inputs measurement method  Connection method  Current inputs  Rated current (le)  Measurement range	phase-neutral  phase-phase phase-neutral  min	VAC VAC VAC Hz Hz	90720 50415  45 66 True RMS Single. two. three-phase with or without neutral. balanced three-phase systems  5 0.0256A
Operating voltage range  Voltage inputs operational frequency  Voltage inputs measurement method  Connection method  Current inputs  Rated current (le)	phase-neutral  phase-phase phase-neutral  min	VAC VAC VAC Hz Hz	90720 50415  45 66 True RMS Single. two. three-phase with or without neutral. balanced three-phase systems  5 0.0256A TRMS
Operating voltage range  Voltage inputs operational frequency  Voltage inputs measurement method  Connection method  Current inputs  Rated current (le)  Measurement range  Measurement method	phase-neutral  phase-phase phase-neutral  min	VAC VAC VAC Hz Hz	90720 50415  45 66 True RMS Single. two. three-phase with or without neutral. balanced three-phase systems  5 0.0256A TRMS +20% le through
Operating voltage range  Voltage inputs operational frequency  Voltage inputs measurement method  Connection method  Current inputs  Rated current (le)  Measurement range	phase-neutral  phase-phase phase-neutral  min	VAC VAC VAC Hz Hz	90720 50415  45 66 True RMS Single. two. three-phase with or without neutral. balanced three-phase systems  5 0.0256A TRMS

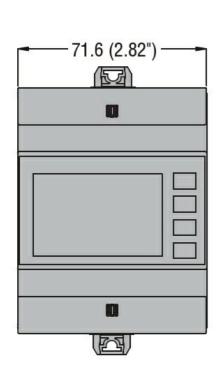
**ENERGY AND AUTOMATION** 

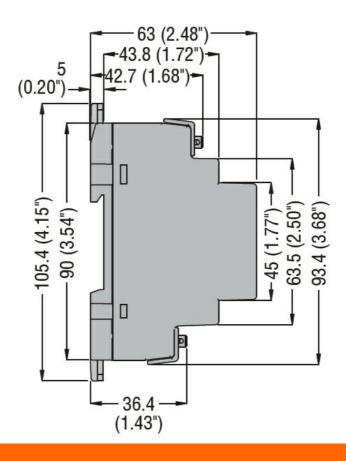
# MODULÁRNÍ MULTIMETR, PODSVÍCENÝ DISPLEJ, POMOCNÉ NAPÁJENÍ 100-240VAC/115-250VDC

Accuracy	Overload peak		Α	50A for 1s
VLL voltage	Accuracy			
Current Frequency		VLN voltage		±0.5%
Prequency Active power		•		
Active power		Current		±0.5%
Active energy		Frequency		
Reactive energy		Active power		±1%
Reactive signs		Active energy		62053-21)
Rated insulation voltage Ui IEC/EN         V         690           Rated impulse withstand voltage Uimp         kV         9.5           Operating frequency withstand voltage         KV         5.2           Functions         Functions         I5th order           Harmonic analysis         15th order           PLC logic         No         No           Type of communication port         No         No           Ethernet-RS485 gateway function         No         Moderance           Mechanical features         Fixed           Conductor cross section         Fixed           Conductor cross section         Image: Max and an	R	Reactive energy		
Rated impulse withstand voltage         kV         9.5           Operating frequency withstand voltage         kV         5.2           Functions	Insulations			
No	Rated insulation voltage Ui IEC/EN		V	690
Functions           Harmonic analysis         15th order           PLC logic         No           Type of communication port         No           Ethernet-R\$485 gateway function         No           Mechanical features           Housing type         Polyamide           Terminals type         Fixed           Conductor cross section         min mm² Max mm² 4           Max mm² 4         4           Max mm² 4         4           Max mm² 4         12           Tightening torque (Max)           Nm o.8 libin 7           Fixing         Din rail           Weight         g 294           Ambient conditions           Temperature           Max mx °C +60           Storage temperature         min °C -20 nx °C +60           Storage temperature         min °C -30 nx °C +60           Relative humidity         % <90	Rated impulse withstand voltage Uimp		kV	9.5
Harmonic analysis         15th order           PLC logic         No           Type of communication port         No           Ethernet-RS485 gateway function         No           Mechanical features         Polyamide           Housing type         Polyamide           Terminals type         Fixed           Conductor cross section         min mm² Max mm² 4 mm² 4 min AWG 24 mm² AWG 12           Tightening torque (Max)         Nm 0.8 lbin 7           Fixing         pin nall           Weight         g 294           Ambient conditions         Storage temperature           Temperature         min °C -20 max °C +60           Storage temperature         min °C -330 max °C +60           Relative humidity         % <90	Operating frequency withstand voltage		kV	5.2
PLC logic         No           Type of communication port         No           Ethernet-RS485 gateway function         No           Mechanical features         Polyamide           Housing type         Fixed           Conductor cross section         min mm² 0.2           Max mm² 4 min AWG 24 min AWG 12         24 min AWG 12           Tightening torque (Max)         Nm 0.8 lbin 7           Fixing         Din rail           Weight         g 294           Ambient conditions         min °C -20 max °C +60           Temperature         Storage temperature         min °C -30 max °C +60           Storage temperature         min °C -30 max °C +80           Relative humidity         % <90	Functions			
Type of communication port         No           Ethernet-RS485 gateway function         No           Mechanical features         Polyamide           Terminals type         Fixed           Conductor cross section         min min mm² m² damin min mm² damin min mm² damin min min min min min min min min min	Harmonic analysis			15th order
Ethernet-RS485 gateway function         No           Mechanical features           Housing type         Fixed           Conductor cross section         min mm² mm² 0.2 min mm² 4 min mm² 4 min mm² 4 min min mm² 0.2 min min mm² 0.2 min min mm² 0.2 min min min mm² 0.2 min	PLC logic			No
Ethernet-RS485 gateway function         No           Mechanical features           Housing type         Fixed           Conductor cross section         min mm² fixed         Max mm² da min AWG 24 min AWG 24 min AWG 12           Tightening torque (Max)         Nm 0.8 libin 7           Fixing         Din rail           Weight         g 294           Ambient conditions           Temperature           Min °C -20 max °C +60           Storage temperature           min occ max °C +60           Storage temperature         min occ max °C -30 max °C +80           Relative humidity         % <90           Maximum Pollution degree         2           Protection degree         IP30	Type of communication port			No
Housing type         Polyamide           Terminals type         Fixed           Conductor cross section           min mm² Max mm² 4 min may Max mm² 4 min may Max mm² 4 min may Max min may Max may 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         max °C +80           Maximum Pollution degree         2           Protection degree         1P30				No
Terminals type         Fixed           Conductor cross section         min mm² mm² 0.2 Max mm² 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	Mechanical features			
Conductor cross section           min Max mm² Max mm² 4 min AWG 24 min AWG 12           Tightening torque (Max)           Nm 0.8 lbin 7           Fixing         Din rail           Weight         g 294           Ambient conditions         Temperature           Storage temperature         min °C -20 max °C +60           Storage temperature         min °C -30 max °C +80           Relative humidity         % <90           Maximum Pollution degree         1P30	Housing type			Polyamide
Conductor cross section           min Max mm² Max mm² 4 min AWG 24 min AWG 12           Tightening torque (Max)           Nm 0.8 lbin 7           Fixing         Din rail           Weight         g 294           Ambient conditions         Temperature           Storage temperature         min °C -20 max °C +60           Storage temperature         min °C -30 max °C +80           Relative humidity         % <90           Maximum Pollution degree         1P30	Terminals type			Fixed
Max mm² 4 min AWG 24 min AWG 12 min Max mm² 4 min AWG 12 min Max MWG 12 min Max MWG 12 min Max MWG 12 min Max MWG 12 min M				
min Max AWG 24 Max AWG 12           Tightening torque (Max)           Nm 0.8 Ibin 7           Eixing         Din rail           Weight         g 294           Ambient conditions           Temperature           Min °C -20 max °C +60           Storage temperature           Relative humidity         % < 90           Maximum Pollution degree         2           Protection degree         IP30		min	mm²	0.2
Max   AWG   12		Max	mm²	4
Nm		min	AWG	24
Nm   0.8		Max	AWG	12
Nm   0.8	Tightening torque (Max)			
Din rail   Pixing   Din rail   Pixing   Pixing			Nm	0.8
Fixing         Din rail           Weight         g         294           Ambient conditions           Temperature           min °C -20 max °C +60           Storage temperature           min °C -30 max °C +80           Relative humidity         % <90				
Weight         g         294           Ambient conditions           Temperature           min °C -20 max °C +60           Storage temperature           min °C -30 max °C +80           Relative humidity         % <90	Fixing			Din rail
Ambient conditions           Temperature			q	
Operating temperature			<u> </u>	
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				
min max         °C +60           Storage temperature         min or c +80           Relative humidity         % <90	·			
max         °C         +60           Storage temperature           min or colspan="2">or -30 max         °C         +80           Relative humidity         %         <90	- 1 3 5	min	°C	-20
Storage temperature           min max         °C -30 regree           Relative humidity         % <90 regree           Maximum Pollution degree         2 regree           Protection degree         IP30				
min max         °C -30 record           Relative humidity         % <90 record	Storage temperature			
Relative humidity%<90Maximum Pollution degree2Protection degreeIP30	O L	min	°C	-30
Relative humidity%<90Maximum Pollution degree2Protection degreeIP30				
Maximum Pollution degree2Protection degreeIP30	Relative humidity			
Protection degree IP30				
				00

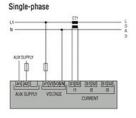
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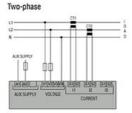
### MODULÁRNÍ MULTIMETR, PODSVÍCENÝ DISPLEJ, POMOCNÉ NAPÁJENÍ 100-240VAC/115-250VDC

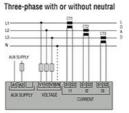




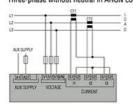


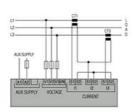


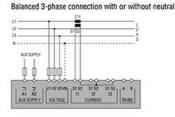




Three-phase without neutral in ARON connection







CODE	AUX SUPPLY
DMG100-110-200-210-300	100240VAC 110250VDC
DMG6	100440VAC 110250VDC
DMG7000-7500-8000-9000	100240VAC

RS485 for DMG210	DMG110 an
TR A B SG RS485	

A B	1	

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



### **DMG100**

# MODULÁRNÍ MULTIMETR, PODSVÍCENÝ DISPLEJ, POMOCNÉ NAPÁJENÍ 100-240VAC/115-250VDC

	UL61010-1	
Certificates		
	cULus	
	EAC	
	GOST	
	RCM	
ETIM classification		
		E000001

ETIM 8.0

EC002301 -Multifunction measuring instrument