

VERKKOANALYSAATTORI PANEELIASENNUKSEEN

DMG7000, DMG7500, DMG8000, DMG9000

DMG8000

Verkkoanalysointilaite, LCD-näyttö, laajennettavissa,
Ethernet, muisti

- 4,3" värillinen LCD-näyttö
- Monipuoliset väylävaihtoehdot
- Laajennettavissa esim. I/O moduulein
- NFC-ohjelmointi
- Yhteensopivat Easy Branch järjestelmän kanssa



TUOTEKUVAUS

	DMG7000	DMG7500	DMG8000	DMG9000
RS485-portti	-	•	-	•
Ethernet-portti	-	-	•	•
Ethernet-RS485 gateway toiminto	+ EXP1012 + EXP1013	+ EXP1013	+ EXP1012	•
Sisäinen muisti	-	-	•	•
EN50160 yhteensopivuus	-	-	-	•
4 virtamuuntajatuloa, mahdollistaa nollavirran mittaamisen	-	-	-	•
5 sisääntuloa jännitteelle, N-PE jännitteen mittausta	-	-	-	•
EASY BRANCH-yhteensopivuus	-	•	•	•

TEKNISET TIEDOT

Asennus	Paneeliasennus
Datamuisti	Kyllä
EASY BRANCH -yhteensopiva	Kyllä
Ethernet	Kyllä
Etupaneelin IP-luokka	IP65

Hyväksynnät	CSA C22.2-N°14, EN61000-6-2, EN61000-6-3, EN61010-1, UL 508
Laajennettavuus	Kyllä
Laajennusmodulien maksimimäärä	3 kpl
Liittimien IP-luokka	IP20
Max. käyttölämpötila	60 °C
Max. syöttöjännite AC	264 V AC
Max. syöttöjännite DC	300 V DC
Max. taajuus	360 Hz
Max. varastointilämpötila	80 °C
Min. käyttölämpötila	-20 °C
Min. syöttöjännite AC	90 V AC
Min. syöttöjännite DC	100 V DC
Min. taajuus	45 Hz
Min. varastointilämpötila	-30 °C
Mitattava suure	True RMS
Mittaustarkkuus (L-L)	±0,2 % (80...830 V AC)
Mittaustarkkuus (L-N)	±0,2 % (50...480 V AC)
Paino	0,412 kg
Tehonkulutus	6 W
Virrankulutus	15 VA

POWER ANALYZERS WITH WIDESCREEN COLOUR LCD DMG SERIES

- WIDESCREEN COLOR LCD**
The large size of the color LCD (8,3") allows for the optimal view of measures and parameters in a clear, simple and readable way. The standard colour dimensions (200x100mm) ensure a perfect compatibility with the usual front panel solutions.
- 10 LANGUAGES**
The language shown can be selected from a large number of choices: English, French, German, Italian, Spanish, Portuguese, Polish, Russian, Czech, Chinese.
- PROGRAMMABLE LEDs**
3 front LEDs are programmable and let the user know the status of the device at any time: alarm programmed by the user, status of digital inputs or outputs, emission of pulses indicating energy consumption, communication in progress.
- HIGH ACCURACY LEVEL FOR MEASUREMENTS**
The measurements are verified according to the recognized international standards for measuring instruments: IEC 62053-22 class 0,5s, IEC 62053-24 class 1s and IEC 61557-12 class 0,5s.
- PLC LOGIC**
Thanks to the built-in PLC logic, the power analyzers can perform simple automations related to three and four phase and digital inputs. Programming with "formal" Ladder is simple and intuitive thanks to the use of 3 graphic configuration software.
- NFC CONFIGURATION**
Thanks to NFC technology, it is possible to configure and modify parameters (even when the device is not powered) through the DMG2000 App, which can be downloaded for free from the Google Play Store and App Store for Android and iOS smart devices.

- EXPANDABILITY**
Possibility to add up to 3 I/Os: remote separation module, additional inputs, outputs and communication ports.
- INTEGRATION WITH SIGNALS FROM THE FIELD**
Thanks to the 3 I/Os expansion modules it is possible to add digital and analog inputs by which field measurements such as gas or water consumption, tank levels, temperature, pressure and much more are integrated into the data collection in order to obtain a complete energy management.
- OPTICAL PORT**
The optical port compatible with the communication devices Cat1 and Cat2 is available and allows, thanks to 3Gnet software, the parameter configuration, the electrical network diagnostics and the remote update of the power analyzer.
- DEGREE OF PROTECTION: IP65**
Possibility of use in harsh environments thanks to the gasket on the back which guarantees the IP65 degree of protection.
- COMMUNICATION**
Availability of modules with built-in RS485 and Ethernet communication ports.

	DMG2000	DMG5000	DMG6000	DMG8000
Built-in RS485 port	—	—	—	—
Built-in Ethernet port (with web server)	—	—	—	—
Ethernet RS485 gateway function	+ EXP1012 + EXP1013	+ EXP1013	+ EXP1012	—
Memory for data collection	—	—	—	—
Statistics of network quality according to EN50160	—	—	—	—
Neutral current measurement through dedicated CT	—	—	—	—
Neutral-Earth voltage measurement	—	—	—	—
Compatibility with EASY BRANCH power monitoring system	—	—	—	—

EVERYTHING UNDER CONTROL!

- MEASUREMENTS**
DMG power analyzers display all the measurements useful for a complete check of the electrical network. The voltage measurement input does not require external transformers up to 600VAC.
- CHARTS AND HARMONICS**
The electrical measurements are shown with waveform charts, polar diagrams and representations of the harmonic spectrum up to the 31st order which is a useful tool to better understand the state of the system.
- STATISTICS**
The DMG2000 model also provides statistics on the quality of the network according to the EN50160 standard: class C - voltage dips, overvoltages, interruptions, low frequency noises and much more.

Cutout

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

Single phase

Two phase

Three phase with or without neutral

Three phase without neutral in ANCO connection

Balanced 3 phase connection with or without neutral

CODE	DMG2000	DMG5000	DMG6000	DMG8000
RS485 for DMG2000 and DMG5000	12-01	12-01	12-01	12-01
RS485 for DMG6000 and DMG8000	12-02	12-02	12-02	12-02

POWER ANALYZERS WITH WIDESCREEN COLOUR LCD
DMG SERIES



WIDESCREEN COLOR LCD
The large size of the colour LCD (9.7") allows for the optimal view of measures and parameters in a clear, simple and intuitive way.
The standard colour dimensions (256x128mm) ensure a perfect compatibility with the usual front panel solutions.

10 LANGUAGES
The language chosen can be selected from a large number of choices: English, French, German, Italian, Spanish, Portuguese, Polish, Russian, Czech, Chinese.

PROGRAMMABLE LEDS
3 front LEDs can be programmed so that the user knows the status of the device at any time: alarm programmed by the user, status of digital inputs or outputs, presence of pulses indicating energy consumption, communication in progress.

HIGH ACCURACY LEVEL FOR MEASUREMENTS
The measurements are verified according to the recognized international standards for measuring instruments: IEC 62053-22 class 0.5s, IEC 62053-24 class 1s and IEC 61557-12 class 0.5s.

PLC LOGIC
Thanks to the built-in PLC logic, the power analyzers can perform simple automatics related to errors and alarm states and digital inputs.
Programming with "ladder logic" is simple and intuitive thanks to the use of XOPIC configuration software.

NFC CONFIGURATION
Thanks to NFC technology, it is possible to configure and modify parameters even when the device is not powered through the XOPIC App, which can be downloaded for free from the Google Play Store and App Store for Android and iOS smart devices.



EXPANDABILITY
Possibility to add up to 8 IOP - series expansion modules (additional inputs, outputs and communication ports).

INTEGRATION WITH SIGNALS FROM THE FIELD
Thanks to the IOP - expansion modules it is possible to add digital and analog inputs by which field measurements such as gas or water consumption, tank levels, temperature, pressure and much more are integrated into the data collection in order to obtain a complete energy management.

OPTICAL PORT
The optical port compatible with the communication device COM1 and COM2 is available and allows, thanks to XOPIC software, the parameter configuration, the electrical network diagnostics and the firmware update of the power analyzer.

EASY BRANCH POWER MONITORING SYSTEM
Thanks to the IOP - modules, a targeted and very fast wiring can be achieved in panels where it is necessary to read the electrical parameters of different loads, drastically reducing the costs and the installation times.

DEGREE OF PROTECTION: IP65

Possibility of use in harsh environments thanks to the gasket on the back which guarantees the IP65 degree of protection.

COMMUNICATION

Availability of modules with built-in RS485 and Ethernet communication ports.

	DMG7000	DMG7500	DMG8000	DMG8000S
Built-in RS485 port	—	•	—	•
Built-in Ethernet port (with web server)	—	—	•	•
Ethernet RS485 gateway function	+ EXP1012 + EXP1013	+ EXP1013	+ EXP1012	•
Memory for data collection	—	—	•	•
Statistics of network quality according to EN50160	—	—	•	•
Neutral current measurement through dedicated CT	—	—	—	•
Neutral earth voltage measurement	—	—	—	•
Compatibility with EASY BRANCH power monitoring system	—	•	•	•

EVERYTHING UNDER CONTROL!

MEASUREMENTS
DMG power analyzers display all the measurements useful for a complete check of the electrical network. The voltage measurement input does not require external transformers up to 600VAC.

CHARTS AND HARMONICS
The electrical measurements are shown with waveform charts, polar diagrams and representations of the harmonic spectrum up to the 50th order which is a useful tool to better understand the state of the system.

STATISTICS
The DMG8000S model also provides statistics on the quality of the network according to the EN50160 standard - class C - (voltage dips, overvoltages, interruptions, low frequency noise and much more).



Waveforms



Polar diagram



Currents



Energy consumption control