



Panel m. color  
glcd mult.,  
Ethernet  
DMG8000  
Three-phase +  
neutral

Product designation

Product type designation

Type

#### 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  
Single. Two.  
Three-phase with  
or without neutral.  
Balanced three-  
phase system.  
Three-phase  
ARON.

Connection method

#### Current inputs

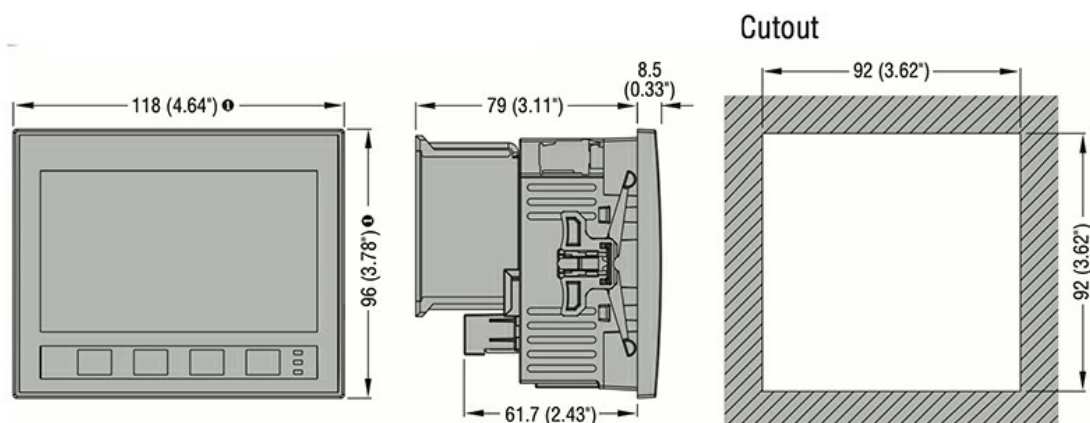
|                    |   |           |
|--------------------|---|-----------|
| Rated current (Ie) | A | 1A/5A     |
| Measurement range  |   | 0.004...6 |
| Measurement method |   | TRMS      |

|                                                    |                          |                 |                                                      |
|----------------------------------------------------|--------------------------|-----------------|------------------------------------------------------|
| Overload capacity                                  |                          |                 | +20% I <sub>e</sub> by external CT with 5A secondary |
| Overload peak                                      | A                        |                 | 120A for 0.5s                                        |
| <b>Accuracy</b>                                    |                          |                 |                                                      |
|                                                    |                          |                 | Class 0.2 (IEC/EN 61557-12), V:50-480V~              |
|                                                    | VLN voltage              |                 | Class 0.2 (IEC/EN 61557-12), V:87-830V~              |
|                                                    | VLL voltage              |                 | Class 0.2 (IEC/EN 61557-12), I <sub>n</sub> :5A~     |
|                                                    | Current                  |                 | Class 0.02 (IEC/EN 61557-12)                         |
|                                                    | Frequency                |                 | Class 0.5 (IEC/EN 61557-12)                          |
|                                                    | Active power             |                 | Class 1 (IEC/EN 61557-12)                            |
|                                                    | Reactive power           |                 | Class 0.5s (IEC/EN 62053-22)                         |
|                                                    | Active energy            |                 | Class 1 (IEC/EN 62053-24)                            |
|                                                    | Reactive energy          |                 | Class 5 (IEC/EN 61557-12)                            |
|                                                    | THD                      |                 | Class 5 (IEC/EN 61557-12)                            |
|                                                    | 2nd 15th order harmonics |                 | Class 5 (IEC/EN 61557-12)                            |
| <b>Insulations</b>                                 |                          |                 |                                                      |
| Rated insulation voltage U <sub>i</sub> IEC/EN     | V                        |                 | 600                                                  |
| Rated impulse withstand voltage U <sub>imp</sub>   | kV                       |                 | 9.6                                                  |
| Operating frequency withstand voltage              | kV                       |                 | 5.4                                                  |
| <b>Functions</b>                                   |                          |                 |                                                      |
| 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                                                  |
| <b>Mechanical features</b>                         |                          |                 |                                                      |
| Housing type                                       |                          |                 | Xantar RAL 7035                                      |
| Terminals type                                     |                          |                 | Removable                                            |
| Conductor cross section                            |                          |                 |                                                      |
|                                                    | min                      | mm <sup>2</sup> | 0.2                                                  |
|                                                    | Max                      | mm <sup>2</sup> | 2.5                                                  |
|                                                    | min                      | AWG             | 24                                                   |
|                                                    | Max                      | AWG             | 12                                                   |
| Tightening torque (Max)                            |                          |                 |                                                      |
|                                                    |                          | Nm              | 0.5                                                  |
|                                                    |                          | lbin            | 4.5                                                  |

ANALYSEUR DE RÉSEAU AVEC ÉCRAN LARGE LCD COULEUR. ALIMENTATION AUXILIAIRE 100...240VAC. EXTENSIBLE AVEC 3 MODULES EXP..., PORT ETHERNET INTÉGRÉ, MÉMOIRE POUR L'ENREGISTREMENT DE DONNÉES, COMPATIBLE AVEC LE SYSTÈME DE MESURE DE L'ÉNERGIE EASY BRANCH.

|                           |                |
|---------------------------|----------------|
| Fixing                    | Flush-mounting |
| Weight                    | g 420          |
| <b>Ambient conditions</b> |                |
| 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           |

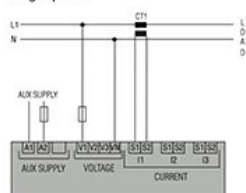
## Dimensions



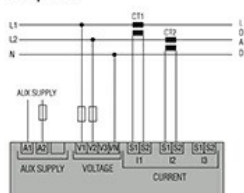
① Dimensions with gasket: 122x100mm/4.80x3.94".

## Wiring diagrams

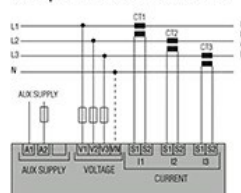
Single-phase



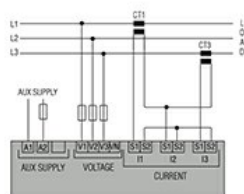
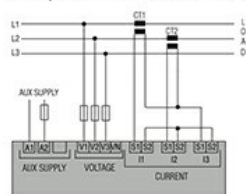
Two-phase



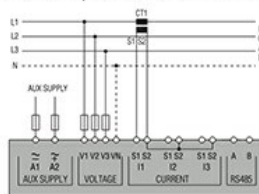
Three-phase with or without neutral



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<br>110...250VDC |
| DMG6...                | 100...440VAC<br>110...250VDC |
| DMG7000-7500-8000-9000 | 100...240VAC<br>110...250VDC |

RS485 for DMG110 and DMG210



RS485 for DMG610



RS485 for DMG7500 and DMG9000



## Certifications and compliance

### Compliance

IEC/EN/BS 61000-6-2

IEC/EN/BS 61000-6-4

ANALYSEUR DE RÉSEAU AVEC ÉCRAN LARGE LCD COULEUR. ALIMENTATION AUXILIAIRE 100...240VAC. EXTENSIBLE AVEC 3 MODULES EXP..., PORT ETHERNET INTÉGRÉ, MÉMOIRE POUR L'ENREGISTREMENT DE DONNÉES , COMPATIBLE AVEC LE SYSTÈME DE MESURE DE L'ÉNERGIE EASY BRANCH.

IEC/EN/BS 61010-1

Certificates

CE

EAC

UKCA

ETIM classification

ETIM 8.0

EC002301 -  
Multifunction  
measuring  
instrument