



Product designation

Product type designation

Type

Panel m. color
glcd mult.,
RS485 + ETH
DMG9000
Three-phase +
neutral + earth

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 _e by external CT with 5A secondary |
| Overload peak | A | 120A for 0.5s |

Accuracy

Measurement conditions (T +23°C ±1°C / Rel. Humidity 45 ±15% R.H.)

| | | |
|--|--------------------------|---|
| | 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), I _n :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/BS 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) |

RS485 serial interface

| | | |
|-----------|-----|-------------------------------|
| Baud rate | bps | Programmable 1200...115200 |
|-----------|-----|-------------------------------|

Insulations

| | | |
|--|----|-----|
| Rated insulation voltage U _i IEC/EN | V | 600 |
| Rated impulse withstand voltage U _{imp} | kV | 9.6 |
| Operating frequency withstand voltage | kV | 5.4 |

Mechanical features

| | | | |
|-------------------------|-----------------|-----------------|-----|
| Housing type | Xantar RAL 7035 | | |
| Terminals type | Removable | | |
| Conductor cross section | min | mm ² | 0.2 |
| | Max | mm ² | 2.5 |
| | min | AWG | 24 |
| | Max | AWG | 12 |

| | | |
|-------------------------|------|-----|
| Tightening torque (Max) | Nm | 0.5 |
| | lbin | 4.5 |

| | | |
|--------|----------------|-----|
| Fixing | Flush-mounting | |
| Weight | g | 439 |

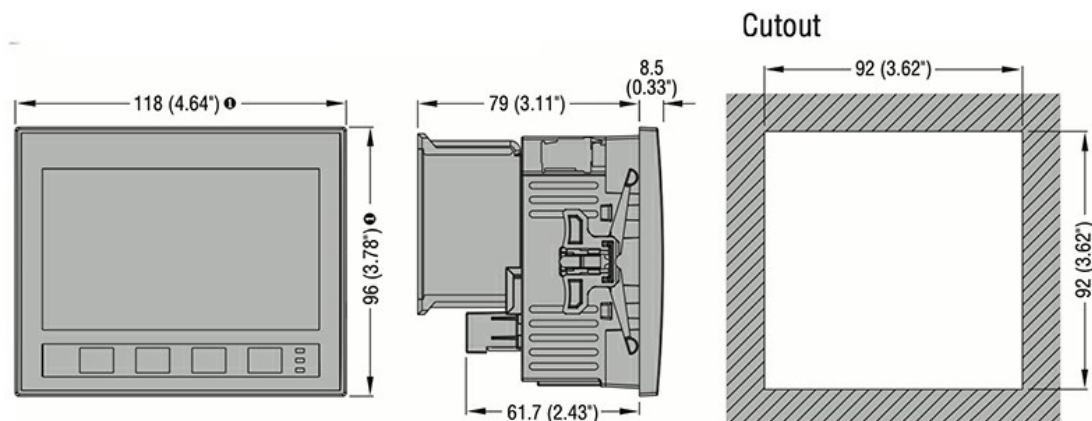
Ambient conditions

| | |
|-------------|-----------------------|
| Temperature | Operating temperature |
|-------------|-----------------------|

POWER ANALYZER WITH WIDESCREEN COLOUR LCD. AUXILIARY SUPPLY 100...240VAC.
EXPANDABLE WITH 3 EXP... MODULES, BUILT-IN RS485 AND ETHERNET PORTS, DATA
MEMORY FOR LOGGING, COMPATIBLE WITH EASY BRANCH POWER MONITORING
SYSTEM

| | | | |
|--------------------------|-----|----|------|
| | min | °C | -20 |
| | max | °C | +60 |
| Storage temperature | min | °C | -30 |
| | max | °C | +80 |
| Relative humidity | | % | <80 |
| Maximum Pollution degree | | | 2 |
| Protection degree | | | IP65 |

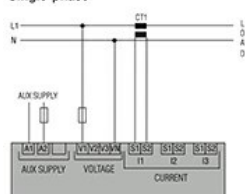
Dimensions



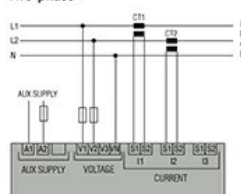
① Dimensions with gasket: 122x100mm/4.80x3.94".

Wiring diagrams

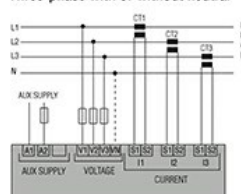
Single-phase



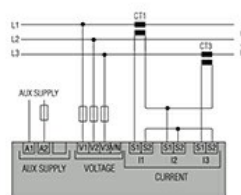
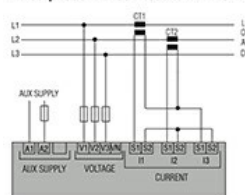
Two-phase



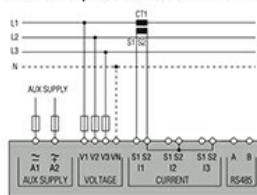
Three-phase with or without neutral



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 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

IEC/EN/BS 61000-6-2

IEC/EN/BS 61000-6-4

IEC/EN/BS 61010-1

Certificates

CE

EAC

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UKCA

ETIM classification

ETIM 8.0

EC002301 -
Multifunction
measuring
instrument