



Flush-mount LCD multimeters. expandable DMG615 Three-phase + neutral

Product designation

Product type designation

Type

**Auxiliary supply Us**

|                                   |     |           |
|-----------------------------------|-----|-----------|
| Auxiliary rated supply voltage AC | VAC | 100...440 |
| Auxiliary rated supply voltage DC | VDC | 120...250 |
| Auxiliary operating voltage range |     |           |
| AC                                |     |           |
|                                   | min | VAC 90    |
|                                   | Max | VAC 484   |
| DC                                |     |           |
|                                   | min | VDC 93.5  |
|                                   | Max | VDC 300   |

|                       |     |       |
|-----------------------|-----|-------|
| Operational frequency |     |       |
|                       | min | Hz 45 |
|                       | max | Hz 66 |

|                   |     |        |
|-------------------|-----|--------|
| Power consumption | Max | VA 9.5 |
|-------------------|-----|--------|

|                       |   |     |
|-----------------------|---|-----|
| Power dissipation Max | W | 3.5 |
|-----------------------|---|-----|

**Measuring voltage inputs**

|                    |               |         |
|--------------------|---------------|---------|
| Rated voltage (Ue) |               |         |
|                    | phase-phase   | VAC 600 |
|                    | phase-neutral | VAC 300 |

|                         |               |              |
|-------------------------|---------------|--------------|
| Operating voltage range |               |              |
|                         | phase-phase   | VAC 50...720 |
|                         | phase-neutral | VAC 30...360 |

|                                      |     |       |
|--------------------------------------|-----|-------|
| 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 system |
|-------------------|--|---|

**Current inputs**

|                    |   |       |
|--------------------|---|-------|
| Rated current (Ie) | A | 1A/5A |
|--------------------|---|-------|

|                   |  |            |
|-------------------|--|------------|
| Measurement range |  | 0.025...6A |
|-------------------|--|------------|

|                    |  |      |
|--------------------|--|------|
| Measurement method |  | TRMS |
|--------------------|--|------|

|                   |  |  |
|-------------------|--|--|
| Overload capacity |  | +20% Ie by external CT with 5A secondary |
|-------------------|--|--|

|               |   |            |
|---------------|---|------------|
| Overload peak | A | 50A for 1s |
|---------------|---|------------|

### Accuracy

|                 |                                 |
|-----------------|---------------------------------|
| VLN voltage     | ±0.2%                           |
| VLL voltage     | ±0.2%                           |
| Current         | ±0.2%                           |
| Frequency       | ±0.05%                          |
| Active power    | ±0.5%                           |
| Active energy   | Class 0.5s<br>(IEC/EN 62053-22) |
| Reactive energy | Class 2 (IEC/EN 62053-23)       |

### Insulations

|   |    |     |
|---|----|-----|
| Rated insulation voltage $U_i$ IEC/EN     | V  | 600 |
| Rated impulse withstand voltage $U_{imp}$ | 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          | 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 |

|        |                |
|--------|----------------|
| Fixing | Flush-mounting |
| Weight | g 350          |

### Ambient conditions

Temperature

Operating temperature

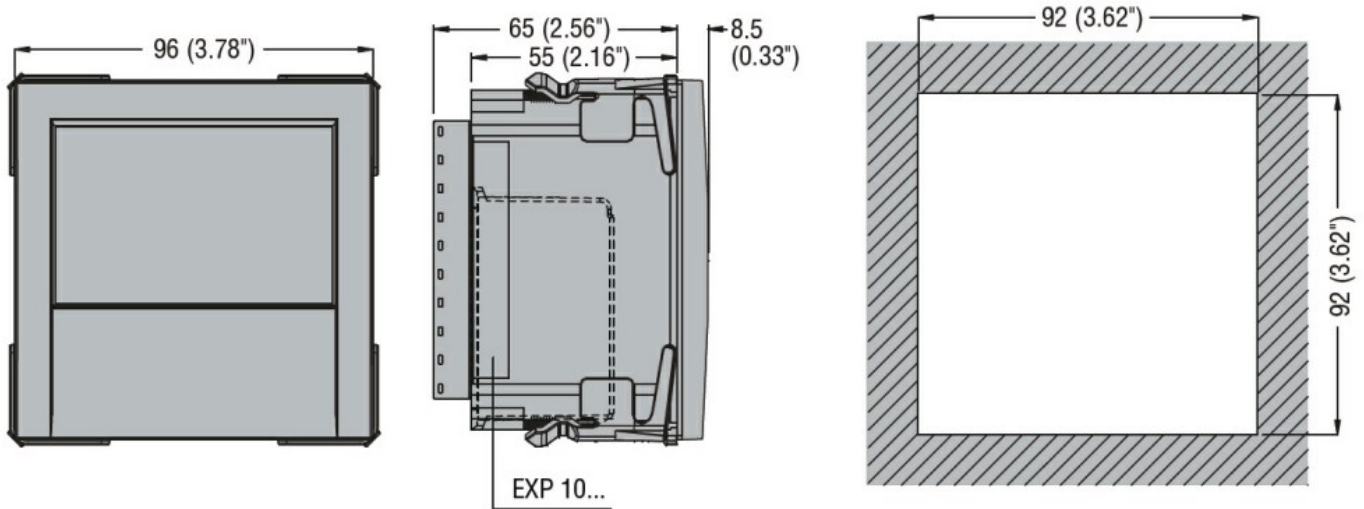
|     |    |     |
|-----|----|-----|
| min | °C | -20 |
| max | °C | +60 |

Storage temperature

|     |    |     |
|-----|----|-----|
| min | °C | -30 |
| max | °C | +80 |

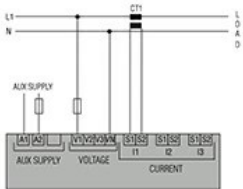
|                          |   |      |
|--------------------------|---|------|
| Relative humidity        | % | <90  |
| Maximum Pollution degree |   | 2    |
| Protection degree        |   | IP54 |

### Dimensions

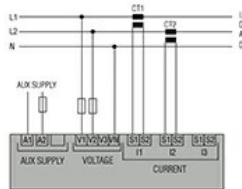


**Wiring diagrams**

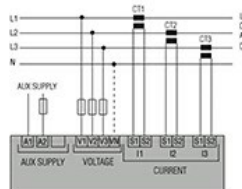
**Single-phase**



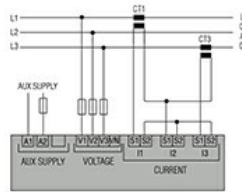
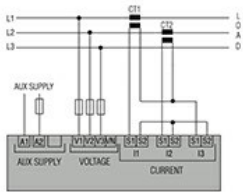
**Two-phase**



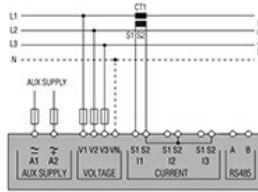
**Three-phase with or without neutral**



**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 |



**Certifications and compliance**

**Compliance**

- IEC/EN 61000-6-2
- IEC/EN 61000-6-3
- IEC/EN 61010-1
- IEC/EN 61010-2-030

**Certificates**

- cULus
- EAC
- RCM

**ETIM classification**

ETIM 8.0

EC002301 -  
Multifunction  
measuring  
instrument