



#### Auxiliary supply $U_s$

Auxiliary operating voltage range  
DC

|                       |     |     |     |
|-----------------------|-----|-----|-----|
|                       | Max | VDC | 31  |
| Power dissipation Max |     | W   | 0.9 |

#### Measuring voltage inputs

|                              |     |            |
|------------------------------|-----|------------|
| Rated operational voltage DC | VDC | 120...1500 |
| Connection method            |     | Direct     |

#### Current inputs

|                            |    |     |
|----------------------------|----|-----|
| Type                       |    | DC  |
| Current                    |    |     |
| IEC maximum ( $I_{max}$ )  | A  | 150 |
| IEC minimum ( $I_{min}$ )  | A  | 1.5 |
| IEC rated ( $I_{ref-Ib}$ ) | A  | 30  |
| IEC start ( $I_{st}$ )     | mA | 120 |
| Transition ( $I_{tr}$ )    | A  | 3   |

#### Accuracy

Reference standards

IEC62052-11,  
IEC62052-31,  
IEC61010-1,  
IEC61010-2-030,  
IEC62053-41,  
EN50470-4  
(class B), VDE-  
AR-E 2418-3-  
100 (Eichrecht),  
PTB-A 20.1,  
PTB-A 50.7, REA  
6A, PTB-8.51-  
MB10-Krypto-EN-  
V17, Welmec  
7.2, UL61010-1,  
UL61010-2-030,  
CSA C22.2 No  
61010-1, CSA  
22.2 No 61010-  
2-030  
Class 1 (EN  
50470-4)

Active energy

#### RS485 serial interface

|           |     |                               |
|-----------|-----|-------------------------------|
| Baud rate | bps | Programmable<br>1200...115200 |
|-----------|-----|-------------------------------|

#### Output characteristics

|                |           |      |
|----------------|-----------|------|
| LED Pulse rate | pulse/kWh | 1000 |
|----------------|-----------|------|

#### Insulations

|                                           |    |      |
|-------------------------------------------|----|------|
| Rated impulse withstand voltage $U_{imp}$ | kV | 12.8 |
|-------------------------------------------|----|------|

#### Functions

|                                 |       |
|---------------------------------|-------|
| Type of communication port      | RS485 |
| Ethernet-RS485 gateway function | Yes   |

#### Mechanical features

|                         |           |
|-------------------------|-----------|
| Housing type            | Polyamide |
| Terminals type          | Removable |
| Tightening torque (Max) |           |

|      |     |
|------|-----|
| Nm   | 20  |
| lbin | 177 |

|        |            |
|--------|------------|
| Fixing | Rear mount |
| Weight | g 655      |

#### Ambient conditions

|                       |        |
|-----------------------|--------|
| Temperature           |        |
| Operating temperature |        |
| min                   | °C -40 |
| max                   | °C +85 |

|                     |        |
|---------------------|--------|
| Storage temperature |        |
| min                 | °C -40 |
| max                 | °C +85 |

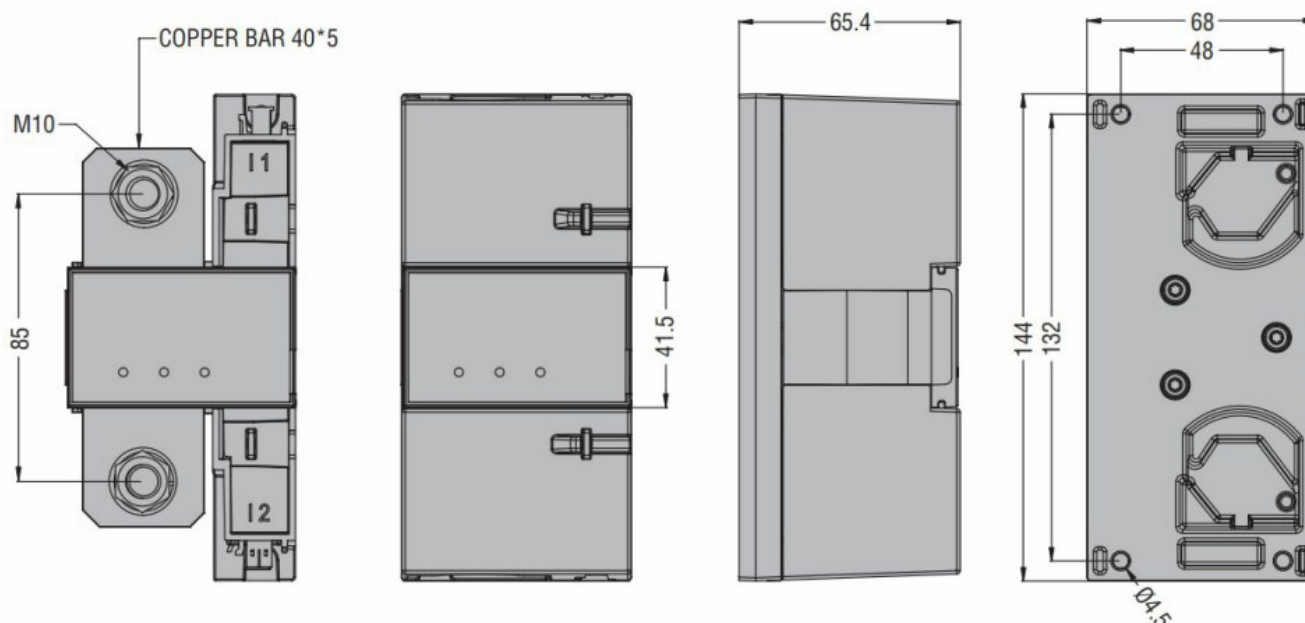
|                          |        |
|--------------------------|--------|
| Relative humidity        | % <80  |
| Max altitude             | m 4000 |
| Maximum Pollution degree | 2      |
| Overvoltage category     | II     |

|                   |                                     |
|-------------------|-------------------------------------|
| Protection degree | IP40 (frontal),<br>IP20 (terminals) |
|-------------------|-------------------------------------|

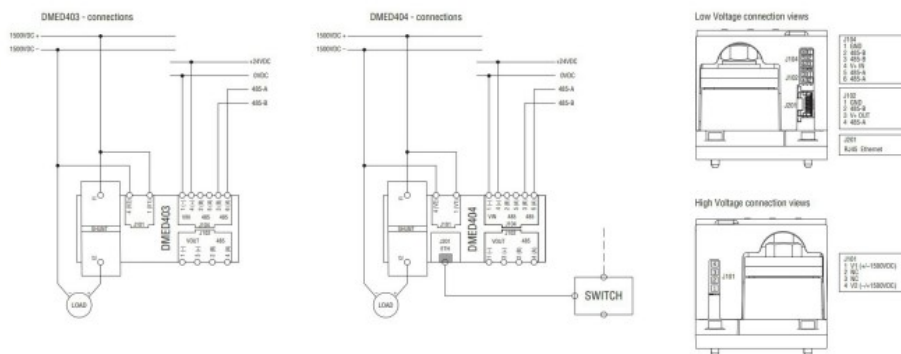
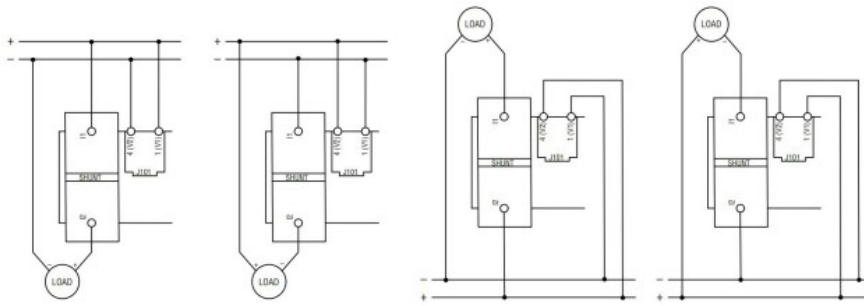
|                        |          |
|------------------------|----------|
| Mechanical environment | Class M1 |
|------------------------|----------|

|                      |          |
|----------------------|----------|
| Magnetic environment | Class E2 |
|----------------------|----------|

#### Dimensions



#### Wiring diagrams



## Certifications and compliance

### Compliance

EN50470-4 (class B)  
IEC61010-1  
IEC61010-2-030  
IEC62052-11  
IEC62052-31  
IEC62053-41  
PTB-8.51-MB10-Krypto-EN-V17  
PTB-A 20.1  
PTB-A 50.7  
REA 6A  
UL6101  
VDE-AR-E 2418-3-100 (Eichrecht)  
Welmec 7.2

### Certificates

cURus  
Eichrecht  
MID

## ETIM classification

ETIM 8.0

EC001506 -  
Kilowatt-hour  
meter