



ECM300C



### 3 Phase kWhmeter via CT 1A or 5A 4M MBUS MID

#### Technical properties

##### Architecture

|                 |       |
|-----------------|-------|
| Bus system      | M-BUS |
| Number of poles | 4 P   |
| Type of pole    | 3P+N  |

##### Functions

|                 |                                   |
|-----------------|-----------------------------------|
| Precision class | B                                 |
| Tarif type      | T1...T2 (230V AC) / T1...T2 M-BUS |

##### Configuration

|                   |   |
|-------------------|---|
| Number of modules | 4 |
|-------------------|---|

##### Compatibility

|              |                   |
|--------------|-------------------|
| Suitable for | Purchase / supply |
|--------------|-------------------|

##### Main electrical features

|                                 |            |
|---------------------------------|------------|
| Rated operational voltage $U_e$ | 92 / 480 V |
| Type of supply voltage          | AC         |
| Frequency                       | 50 Hz      |

##### Voltage

|                                 |       |
|---------------------------------|-------|
| Max operating voltage           | 300 V |
| Rated impulse withstand voltage | 6 kV  |

##### Electric current

|                                  |             |
|----------------------------------|-------------|
| Minimum operating current        | 0.001 A     |
| Operating current                | 0.001 / 6 A |
| Rated current                    | 5 A         |
| Reference current                | 1 A         |
| Max. measurement circuit current | 6 A         |

##### Dimensions

|                             |       |
|-----------------------------|-------|
| Depth of installed product  | 60 mm |
| Height of installed product | 90 mm |
| Width of installed product  | 72 mm |

##### Power

|                           |       |
|---------------------------|-------|
| Power consumed            | 2 VA  |
| Total power loss under IN | 0.6 W |

##### Electrical specifications

**Measurement**

|                              |                         |
|------------------------------|-------------------------|
| Frequency measuring range    | 45 to 65 Hz             |
| Type of measuring instrument | electronical            |
| Principle of measurement     | Measurement transformer |

**Power supply**

|                |                 |
|----------------|-----------------|
| Supply voltage | 400 V $\pm$ 20% |
|----------------|-----------------|

**Installation, mounting**

|                   |          |
|-------------------|----------|
| Tightening torque | 0.5Nm    |
| Mounting type     | din-Rail |

**Connection**

|  |                   |
|--|-------------------|
| Wire cross section of metering entrance wire | 4 mm <sup>2</sup> |
| Wire cross section of metering outgoing wire | 4 mm <sup>2</sup> |

**Settings**

|                                       |   |
|---------------------------------------|---|
| Transformer interpretation adjustable | 1 |
|---------------------------------------|---|

**Equipment**

|                                     |                           |
|-------------------------------------|---------------------------|
| Type of display                     | retro illuminated display |
| Tariff model of kilowatt-hour meter | Externa                   |
| Type of counter                     | 4 wires counter           |

**Use**

|                      |  |
|----------------------|--|
| Transformation Ratio | 50;5 ; 100;5 ; 200;5 ; 250;5 ; 300;5 ; 400;5 ; 600;5 ;<br>800;5 ; 1000;5 ; 1250;5 ; 1500;5 |
|----------------------|--|

**Standards**

|                   |   |
|-------------------|---|
| Standard text     | EN 50470-1 / 3 ; IEC 62053-21 / 23 ; IEC 61557-12 |
| Certified product | MID (Measuring Instruments Directive)             |

**Safety**

|                  |               |
|------------------|---------------|
| Protection class | isol.class II |
| Halogen free     | No            |

**Use conditions**

|  |             |
|--|-------------|
| Operating temperature                                    | -25...55 °C |
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2           |
| Altitude   | 2000 m      |
| Storage/transport temperature                            | -25...70 °C |