Energy Management
Energy Meter
Type EM21 72D
Certified according to MID Directive (option PF only):
see “how to order” below
Not-certified version available (option X):
see “how to order” on the next page.

Product Description
Class B (kWh) according to EN50470-3
Class 1 (kWh) according to EN62053-21
Class 2 (kvarh) according to EN62053-23
Accuracy ±0.5 RDG (current/voltage)

Energy meter
Instantaneous variables readout: 3 DGT
Energies readout: 7 DGT
System variables: W, var, PF, Hz, Phase-sequence.
Single phase variables: VLL, VLN, A, PF
Energy measurements: total kWh and kvarh
TRMS measurements of distorted sine waves (voltages/currents)
Self power supply
Dimensions: 4-DIN modules and 72x72mm
Protection degree (front): IP50
Application adaptable display and programming procedure
(Easyprog function)
Easy connections management
Detachable display
Multi-use housing: for both DIN-rail and panel mounting applications
Three-phase energy meter with removable front LCD display unit. The same unit can be used either as a DIN-rail mounting or a panel mounting energy meter. This general purpose three-phase energy meter is suitable for both active and reactive energymetering for cost allocation but also for main electrical parameter measurement and retransmission (transducer function). Housing for DIN-rail mounting with IP50 (front) protection degree. Current measurements carried out by means of external current transformers and voltage measurements carried out either by means of direct connection or by means of potential transformers. EM21-72D is provided, as standard, with a pulsating output for active energy retransmission. In atd>MID Certified according to MID Directive, Annex "B" + Annex "D" for legal metrology relevant to active electrical energy meters (see Annex MI-003 of MID). Can be used for fiscal (legal) metrology. Only the total active energy meter is certified according to MID.

### Model Range code System

<table>
<thead>
<tr>
<th>Power supply</th>
<th>Output 1</th>
<th>Output 2</th>
<th>Option Measurement</th>
<th>Mounting type</th>
<th>Range codes</th>
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<tbody>
<tr>
<td></td>
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<td>AV6: 120/230VLLAC 5(6)A (VT/PT and CT connections)</td>
<td>P: Panel mounting</td>
<td>AV6</td>
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<td>S: RS485 port</td>
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<td>X: None</td>
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<td>AV5</td>
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<td>XOX S</td>
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</tbody>
</table>

### Type Selection

- Power supply
- Output 1
- Output 2
- Option Measurement
- Mounting type

### Range codes

- AV5: 400VLL AC, 5(6)A (CT connection)
- AV6: 120/230VLLAC 5(6)A (VT/PT and CT connections)
- O: Single static output (opto-mosfet)
- X: None
- S: RS485 port
- X: Self power supply from 18V to 260VAC VLN, 50 Hz (connection VL1-N)
- D: DIN-rail mounting
- P: Panel mounting
- PF: Certified according to MID Directive, Annex "B" + Annex "D" for legal metrology relevant to active electrical energy meters (see Annex MI-003 of MID). Can be used for fiscal (legal) metrology.
A: The power is always integrated - both in case of positive (imported) and negative (exported) power
B: only the positive (imported) power is integrated - no integration in case of negative (exported) power

NOTE: please check the availability of the needed code on the verification path diagram on left before order.
Specifications are subject to change without notice EM2172D DS ENG0310141