**EMU Allrounder**

The multifunctional 5 module (90 mm) width, 3-phase energy and power meter, EMU Allrounder for direct connection up to 85 A, or current transformer /1 or /5 A with S0 Impulse output for active energy. The key measurement values can be read on the display. The Allrounder collects active energy (kWh), with an accuracy of 1%. This conforms to accuracy class B, as per MiD.

- MiD B + D approval for billing purposes ex-factory
- 1 or 5 A current transformer connection for up to 20'000/5 or 4'000/1 A
- Direct connection up to 85 A
- Control input for high and low tariff, double tariff
- Optional up to 4 tariffs
- High performance Opto Power MOSFET S0 Impulse output, 5–600V AC or V DC, max. 90 mA
- Graphic LC-display (60x30 mm) with background lighting
- 8-digit display with one decimal place 0000000.0 kWh
- Mounting on 35 mm DIN rails
- Own consumption just 0.6W/phase
- Accuracy class B (+/-1 %) for active energy EN50470-1, -3
- Can be read remotely via different interfaces

**S0 Impulse output**

**Standard configuration S0 Impulse output**

- Active energy import

**Adjustable pulse rate and length**

Pulse rate per kWh: 0.001, 0.01, 0.1, 1, 10, 100, 1'000 or 10'000
Pulse duration in milliseconds: 1, 2 to 250 ms, adjustable in 2 ms-stages
Factory set configuration in energy meters for:
Direct connection: 1'000 pulses/40 ms
Transformer connection: 10 Impulses/120 ms

**Optional read-out interface**  
**MiD-approval**

As per MID modules B + D for billing purposes ex-factory.
Examples of use
- Cost centre billing
- Ventilation and heating facilities
- Building services management system
- Energy management

Display data

<table>
<thead>
<tr>
<th></th>
<th>Total 3 phases</th>
<th>Per phase</th>
<th>Per tariff</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active energy import (kWh)</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>Active energy import (kWh) resettable</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>Active power (kW)</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>Current (A)</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>Voltage (V) L-N</td>
<td>•</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of power failures</td>
<td>•</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Part No. | Description | Direct connection | Current transformer connection |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A02000000</td>
<td>EMU Allrounder 3/85</td>
<td>3x230 / 400V AC</td>
<td>MiD B+D</td>
</tr>
<tr>
<td>A0200000M</td>
<td>EMU Allrounder 3/85 M-Bus</td>
<td>3x230 / 400V AC</td>
<td>MiD B+D</td>
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<tr>
<td>A1200000</td>
<td>EMU Allrounder 3/5</td>
<td>3x230 / 400V AC</td>
<td>MiD B+D</td>
</tr>
<tr>
<td>A1200000M</td>
<td>EMU Allrounder 3/5 M-Bus</td>
<td>3x230 / 400V AC</td>
<td>MiD B+D</td>
</tr>
</tbody>
</table>

Energy meters with 0.5 % accuracy, for deviating operating voltages or with other display data, for instance apparent power, can be supplied on request.