Energy meter for top hat rail

**Type:**
UMG 104

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**Special features**

- **Communication**
  - Profibus (DP / V0 – optional)
  - Modbus RTU

- **Interfaces**
  - RS232
  - RS485

- **Measuring accuracy**
  - Energy: Class 0.5 (… / 5 A)
  - Current: 0.2 %
  - Voltage: 0.2 %

- **Power quality**
  - Harmonics up to 40th harmonic
  - Unbalance, rotating field indication
  - Distortion factor THD-U / THD-I

- **Networks**
  - IT-, TN-, TT-networks
  - 3-phase and 4-phase networks
  - Up to 4 single-phase networks

- **Temperature measurement**
  - PT100, PT1000, KTY83, KTY84

- **2 Digital outputs**
  - Pulsed output kWh / kvarh
  - Switching output
  - Limit value output
  - Logic output

- **2 Digital inputs**
  - Pulse input
  - Signalling input logic
  - State monitoring

- **Measuring data memory**
  - 4 MByte Flash (136000 measuring values)

- **Network visualization software**
  - GridVis®-Basic (included in scope of delivery)

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**Price**

**UMG 104**
Overview of the devices
Three-wire/four-wire energy meter; 50/60Hz; current transformer …/1/5 A, including programming and evaluation software GridVis®-Basic

<table>
<thead>
<tr>
<th>Supply voltage</th>
<th>4 voltage and 4 current inputs</th>
<th>2 digital inputs</th>
<th>2 digital outputs</th>
<th>Interfaces</th>
<th>Dimensions in mm (H x W x D)</th>
<th>Weight in g</th>
<th>Type</th>
<th>Item No.</th>
<th>Price on request</th>
</tr>
</thead>
<tbody>
<tr>
<td>95 ... 240 V AC</td>
<td>•</td>
<td></td>
<td>•</td>
<td>RS232</td>
<td>90 x 107.5 x approx. 82</td>
<td>350</td>
<td>UMG 104</td>
<td>52.20.001</td>
<td>€220.001</td>
</tr>
<tr>
<td>±10% of nominal range</td>
<td>•</td>
<td></td>
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<tr>
<td>95 ... 240 V DC</td>
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<td></td>
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<td>UMG 104P</td>
<td>52.20.006</td>
<td>€220.006</td>
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**Accessory**
RS232, connecting cable (UMG104 – PC), 2 m, 5-pin 08.02.427

*The operating voltage is obtained from the measuring voltage.*
**Universal measuring instruments**

**Overview of the devices**
Three-wire/four-wire energy meter; 50/60Hz; current transformer .../1/5 A, including programming and evaluation software GridVis®-Basic

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<tbody>
<tr>
<td>95 ... 240 V AC, 135 ... 340 V DC ± 0.0% of nominal range</td>
<td>•</td>
<td>•</td>
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**Accessory**
RS232, connecting cable (UMG104 – PC), 2 m, 5-pin

08.02.427