## Class A power quality analyser

### Type:
UMG 511

### Special features

#### Communication
- Profibus (DP/V0)
- Modbus (RTU, TCP, Gateway)
- TCP/IP
- BACnet (optional)
- HTTP (freely configurable Homepage)
- FTP (File-Transfer)
- TFTP (automatic configuration)
- NTP (time synchronzation)
- SMTP (E-mail function)
- DHCP
- SNMP

#### Interfaces
- Ethernet
- Profibus / RS485 (DSUB-9)

#### Measuring accuracy
- Energy: Class 0.2 S (… / 5 A)
- Current: 0.2 %
- Voltage: 0.1 %

#### Power quality
- Harmonics up to 63rd harmonic, even / uneven
- Flicker measurement
- Short interruptions (from 20 ms)
- Transient recorder (> 50 μs)
- Starting currents (> 10 ms)
- Unbalance
- Half-wave rms value recordings (up to 4.5 minutes)

#### Networks
- IT-, TN-, TT-networks
- 3-phase and 4-phase networks

#### Measuring data memory
- 256 MByte Flash

#### 8 digital inputs
- Pulsed input
- Logic input
- Condition monitoring
- HT / NT switchover
- Emax reset

#### 5 digital outputs
- Pulsed output kWh / kvarh
- Switching output
- Limit value output
- Emax output
- Logic output
- Expandable via external I/O modules

#### Peak load optimization (optional)
- Up to 64 shut-off steps

#### SPS functionality
- Graphic programming
- Basic
- SPS functionality

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

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You will find a detailed device description and the related catalog pages under: www.mueller-ziegler.com
## Universal measuring instruments

### UMG 511

**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>Interfaces</th>
<th>Type</th>
<th>Item No.</th>
<th>Price on request!</th>
</tr>
</thead>
<tbody>
<tr>
<td>95 ... 240 V AC</td>
<td>RS485 via DSub-9 connector *</td>
<td>UMG 511</td>
<td>52.19.001</td>
<td>€ Price on request!</td>
</tr>
<tr>
<td>80 ... 280 V DC</td>
<td>Ethernet 100 base T</td>
<td>UMG 511</td>
<td>52.19.002</td>
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<tr>
<td>±10 % of nominal range</td>
<td>Profibus DP V0 via DSub-9 connector *</td>
<td>UMG 511</td>
<td>52.19.003</td>
<td></td>
</tr>
<tr>
<td>44 ... 130 V AC</td>
<td>Dimensions in mm (H x W x D)</td>
<td>Weight in Kg</td>
<td>Type</td>
<td>Item No.</td>
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<tr>
<td>±10 % of nominal range</td>
<td>144 x 144 x approx. 81</td>
<td>approx. 0.1</td>
<td>UMG 511</td>
<td>52.19.001</td>
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<tr>
<td>48 ... 180 V DC</td>
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<td>approx. 0.1</td>
<td>UMG 511</td>
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<tr>
<td>20 ... 30 V AC</td>
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<tr>
<td>±10 % of nominal range</td>
<td>144 x 144 x approx. 81</td>
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<td>UMG 511</td>
<td>52.19.003</td>
</tr>
</tbody>
</table>

### Option for the devices

**Application program Emax function (peak load optimization)**

| Emax | 52.19.080 |

**BACnet communication**

| BACnet | 52.19.081 |

* = Profibus and Modbus via 1x RS485 (DSub-9 connector), no parallel connection possible.