We see a world where we can all achieve more while using less

We help utilities maximise their service delivery

Our products, solutions and services are simple, efficient and innovative

Integrating for a smart solution
wBEC44 range

Conlog’s new wBEC44 integrated wireless meter range provides the building block for a revolutionary new smart meter. The compact DIN rail meter is packed with features to enhance customer satisfaction, whilst providing the valuable data needed by utilities worldwide. Added to this is the ability for the meter to operate as a prepayment or post-payment meter, depending on the utility’s requirements. The greatest benefit and cost saving is that through the use of integrated radio frequency (RF), the meters are not subject to line interference and don’t require the costly addition of filters, making this a simple, quick and cost effective solution for today and tomorrow.

Features

- Active and reactive power measurement
- Power factor measurement
- Renewable energy management
- Power overload protection
- Current overload protection
- Thermal overload protection
- Configurable tamper detection
- Pre-paid and post-paid mode
- Under and over voltage protection
- Reverse line/load protection
- Emergency and lifeline support
- Configurable low credit alarm threshold
- Operates in extreme supply conditions
- Communication status LED

Enhanced security & protection features

- Remote and manual disconnect/reconnect
  - Detection of bypass and illegal connections
  - Management of unpaid post paid accounts
  - Activate and test meter disconnection device
- Token Entry lockout
- Protection against fraudulent token attacks
- Delayed reconnection
  - In rush current protection of utility assets
  - Protects appliances from surge due to load shedding
**Product specifications**

<table>
<thead>
<tr>
<th>Voltage ratings</th>
<th>110VAC - 127VAC</th>
<th>220VAC - 240VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal voltage (-20% +15%)</td>
<td>60Hz</td>
<td>50Hz</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Current ratings</th>
<th>5A</th>
<th>100A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base current (Ib)</td>
<td>5A</td>
<td>100A</td>
</tr>
<tr>
<td>Max current (Imax)</td>
<td>20mA</td>
<td>25mA</td>
</tr>
<tr>
<td>Min starting current</td>
<td>Class 1</td>
<td>Class 2</td>
</tr>
<tr>
<td>Utilisation category</td>
<td>UC2</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nominal power consumption</th>
<th>1.2W / 9VA</th>
</tr>
</thead>
</table>

**Accuracy**

Class 1 and 2 (maintained throughout life cycle of product)

**Over voltage rating**

440VAC for 48 hours

**Short circuit rating**

Short-circuit withstand 3.0kA

**Protection**

- Power overload
- Thermal overload
- Current overload
- Line / load reversal
- Over / under voltage
- Delayed reconnection
- Galvanic isolation

**Environmental**

- Operating temperature: -10°C to +55°C
- Storage temperature: -25°C to +70°C
- Humidity: 95% non-condensing
- IP rating: IP 54 (Meter and user interface unit)
- RF immunity: 30V/m

**Status indicators**

- Load / power status
- MCU / UIU communication
- Rate LED (1000 pulses / kWh)

**Installation**

- DIN rail mounted (35mm)
- Double insulation

**Terminals**

<table>
<thead>
<tr>
<th>Type</th>
<th>Live</th>
<th>Neutral</th>
<th>Communication</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cage clamp</td>
<td>25mm²</td>
<td>Cage clamp</td>
<td>Spring clamp</td>
</tr>
</tbody>
</table>

**Interrogation**

- Type (Optional): MC171 direct probe
- USB type port
- Radio frequency

**Security**

- Security seals
- Tamper terminal cover
- Load disconnection on tamper detection

**Standards**

- IEC 62052-11
- IEC 62055-51
- IEC 62053-21
- IEC 62055-52
- IEC 62055-21
- IEC 62055-22
- SANS 1524-1
- SANS 15417
- OHSAS 18001:2007
- ISO 9001:2008
- DSP 34-749
- DSP 34-1527
- DSP 34-1635
- ISO 14001:2004

**Packaging**

- Units per carton: 10
- Carton weight (incl box): 3.12kg

For further packaging information, kindly contact Conlog.

*Subject to ambient conditions*