

Low consumption smart solution

wBEC Nano range

Conlog's new wBEC Nano integrated wireless meter range provides a high quality low cost solution. The compact 3 terminal DIN rail bottom entry meter is packed with features to enhance customer satisfaction, whilst providing the valuable data needed by utilities worldwide. The wBEC Nano range has been designed to set a new bench mark for robustness & reliability in the RF electricity metering market. The design principles and highest quality materials already associated with Conlog, ensure that the range shall meet and exceed the requirements of an utility that seeks an efficient, and cost effective solution for today and tomorrow. If you are looking for a robust, reliable Radio Frequency Communication metering solution, Conlog is the partner you can trust.



Enhanced security & protection features

- > Remote and manual disconnect/reconnect
- > 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

Features

- > Active power measurement
- > 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
- > Configurable low credit alarm threshold
- > Operates in extreme supply conditions



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

Product specifications

Voltage ratings

| | | |
|-----------------------------|-----------------|-----------------|
| Nominal voltage (-20% +±5%) | 110VAC - 127VAC | 220VAC - 240VAC |
| Supply frequency (±5%) | 60Hz | 50Hz |

Current ratings

| | |
|--------------------------------------|------|
| Base current (I _b) | 5A |
| Max current (I _{max}) | 60A |
| Min starting current | |
| Class 1 | 20mA |
| Utilisation category | UC2 |
| Transient Current (I _{tr}) | 0.5A |

Nominal power consumption

2W/10VA

Accuracy

Class 1 (maintained throughout life cycle of product)

Over voltage rating

440VAC for 48 hours

Short circuit rating

Short-circuit withstand 2.5 KVA

Impulse voltage protection

6kV

Protection

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

Environmental

| | |
|-----------------------|--------------------|
| Operating temperature | -10°C to +55°C |
| Storage temperature | -25°C to +70°C |
| Humidity | 95% non-condensing |
| IP rating | IP 54 |
| RF immunity | 30V/m |

Status indicators

Load / power status
Rate LED (1000 pulses / kWh)

Installation

| | |
|------------------|-------------------------|
| Footprint | DIN rail mounted (35mm) |
| Insulation class | Double insulation |

Terminals

| | Live | Neutral | Load |
|--------------|-------------------|-------------------|-------------------|
| Type | Cage clamp | Cage clamp | Cage clamp |
| Maximum size | 16mm ² | 16mm ² | 16mm ² |

Interrogation

Type (Optional) Radio frequency

Security

| | |
|-------------------|---|
| Meter housing | Security seals |
| Tamper protection | Tamper terminal cover Load disconnection on tamper detection |

Tested Standards

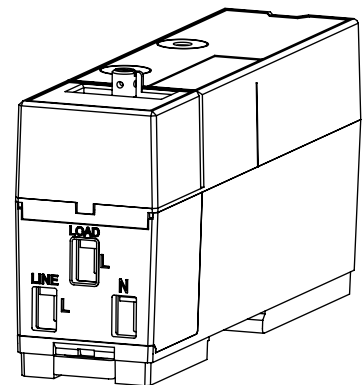
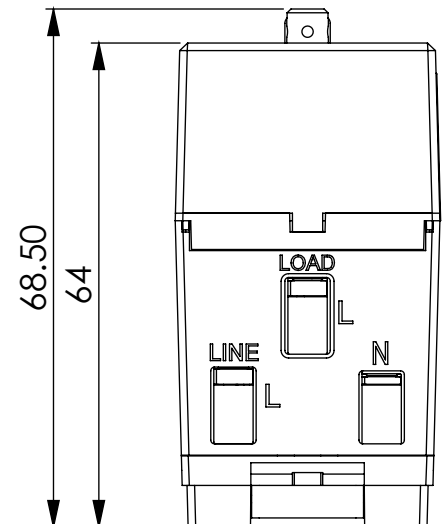
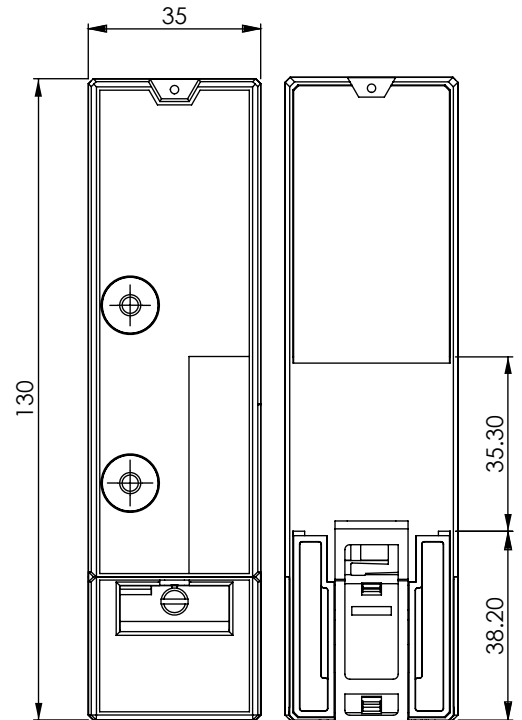
| | |
|--------------|----------------|
| IEC 62052-11 | IEC 62055-52 |
| IEC 62053-21 | IEC 62056-21 |
| IEC 62055-21 | SANS 1524-1 |
| IEC 62055-31 | SANS 15417 |
| IEC 62055-41 | ISO 9001:2008 |
| IEC 62055-51 | ISO 14001:2004 |

Packaging

| | |
|---------------------------|-----------------------|
| Units per carton | 10 |
| Packed weight (incl. box) | 2.2kg |
| Packing box dimensions | 225mm x 150mm x 145mm |

For further packaging information, kindly contact Conlog

* Subject to ambient conditions. All dimensions are in mm



Conlog

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