Metering your three phase demand
wBEC62 range

Conlog’s new BEC62 integrated wireless meter range provides the building block for a revolutionary new smart solution. These meters are 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.

The split configuration of the wBEC62 range of three phase meters, means that the metering device is installed outside the consumer’s premises, whilst the user interface keypad is installed within the home. This provides increased security, whilst ensuring consumer convenience. The new, No Power Tamper (Optional Advanced Tamper) detection capabilities detect tamper even in the absence of an incoming supply.

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

Features

- 3 phase
- 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
- Communication status LED
- Phase unbalanced
- Configurable low credit alarm threshold
Product specifications

110/120/127 VAC
Nominal voltage (-20% +15%)
Supply frequency (±5%)
Base Current (I₀)

220 VAC
Nominal voltage (-20% +15%)
Supply frequency (±5%)
Base Current (I₀)

230/240 VAC
Nominal voltage (-20% +15%)
Supply frequency (±5%)
Base Current (I₀)

Current ratings
Max current (I_max)
Min starting current
Class 1
Class 2
Utilisation category
UC2

Nominal power consumption
1.6W / 9VA

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

Over voltage rating
420VAC for 48 hours

Short circuit rating
Short-circuit withstand 3.0kA

Protection
Power overload
Current overload
Thermal overload
Phase imbalance
Over / under voltage

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
MCU / wUIU communication status
Rate LED (1000 pulses / kWh)

Installation
Footprint
BS7856
Insulation class
Double insulation

Terminals
Live
Neutral
Communication
Type B (USB)
Cage clamp
Cage clamp
IEC 62051-1
SANS 1524-4
SANS 1524-1-1
IEC 62052-11
SANS 15417
SANS 1524-1-2
IEC 62053-21
STS 101-1
OHSAS 18001
IEC 62056-31
STS 201-15.1.0
ISO 14001
IEC 62055-31
DSP 34-749
ISO 9001
IEC 62056-51
DSP 34-1635
SANS 1524-1
IEC 62055-51
RES/RR/101/11740
IEC 62056-21
IEC 60950-1
ETSI EN 300 220-1
SANS 300 220-1

Security
Meter housing
Security seals
Terminal cover
Serialised plastic security seals
Tamper protection
Load disconnection on tamper detection
No power tamper (optional)

Standards

Packaging
Units per box
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For further packaging information, kindly contact Conlog