

# 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.



### 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

- > 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



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% +15%)	110VAC - 127VAC	220VAC - 240VAC
Supply frequency (±5%)	60Hz	50Hz

## Current ratings

Base current (I <sub>b</sub> )	5A
Max current (I <sub>max</sub> )	100A
Min starting current	
Class 1	20mA
Class 2	25mA
Utilisation category	UC2

## Nominal power consumption

1.2W / 9VA

## 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	Galvanic isolation
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 (Meter and user interface unit)
RF immunity	30V/m

## Status indicators

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

## Installation

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

## Terminals

	Live	Neutral	Communication
Type	Cage clamp	Cage clamp	Spring clamp
Maximum size	25mm <sup>2</sup>	16mm <sup>2</sup>	0.7mm <sup>2</sup>

## Interrogation

Type (Optional)	MC171 direct probe USB type port Radio frequency
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## Security

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

## Standards

IEC 62052-11	IEC 62055-51	DSP 34-749
IEC 62053-21	IEC 62055-52	DSP 34-1527
IEC 62055-21	SANS 1524-1	DSP 34-1635
IEC 62055-31	SANS 15417	ISO 14001:2004
IEC 62055-41	OHSAS 18001:2007	ISO 9001:2008

## Packaging

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

For further packaging information, kindly contact Conlog

\* Subject to ambient conditions

## Conlog

Conlog (Pty) Ltd  
Reg. No. 1982/011895/07  
P O Box 2332, Durban, 4000, South Africa  
Tel +27 (31) 268-1111 Fax +27 (31) 268-1500  
www.conlog.co.za  
info@conlog.co.za

