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 inteference 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 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

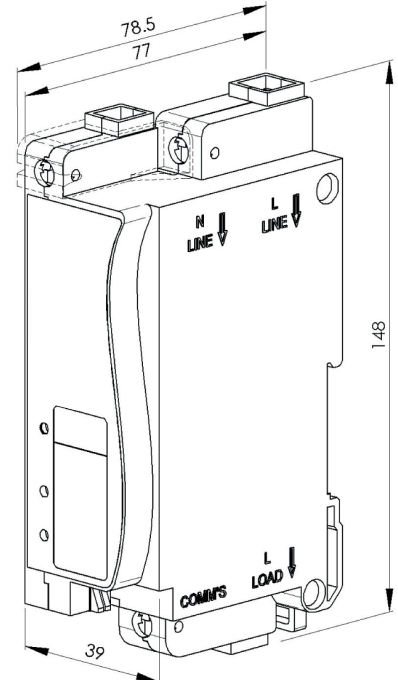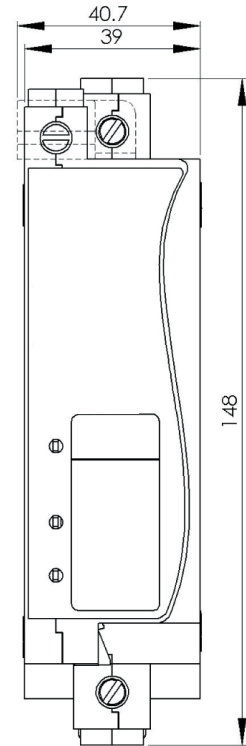**We help utilities maximise their service delivery**

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

CONLOG
Solutions for utilities

Product specifications

Voltage ratings

Nominal voltage (-20% +15%)	110VAC - 127VAC	220VAC - 240VAC
Supply frequency (±5%)	60Hz	50Hz

Current ratings

Base current (I_b)	5A
Max current (I_{max})	100A
Min starting current	
Class 1	20mA
Class 2	25mA
Utilisation category	UC2
Transient Current (Itr)	0.5A

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

Impulse voltage protection

6kV

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	25mm²	16mm²	0.7mm²

Interrogation

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

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