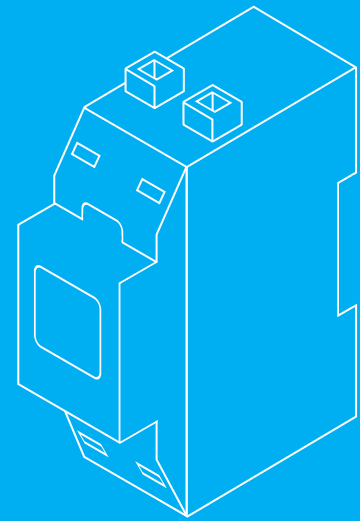# A smart way to manage your energy network

Our eMeter (DR2100-MF-LORA) is a single phase electricity meter that provides energy users and providers
with the ability to understand and manage their use and supply of electricity.

Introducing the cThings®
Single Phase eMeter

Our eMeter remotely monitors and measures the supply and consumption of electricity. The eMeter is an adaptive product that can be used in both commercial and residential buildings providing energy users and suppliers with an instant understanding of their electricity usage.

The eMeter can be fitted in new or existing buildings and, as it uses wireless technology, there is no need for unnecessary and expensive wired networks.

The unit uses the latest LoRaWan technology, providing high-grade security, up to ten miles line-of-sight range and deep in-building penetration. An ideal solution for high and low density environments.

Through our bespoke Cloud API all the meter readings, past and present are available to you, from anywhere in the world.

FEATURES

— Single phase 100A direct fed
— MID certified
— Configurable pulsed output, for both import and export
— Active and reactive energy
— Multi-tariff
— Accuracy class 0.5
— Remote meter data over API

BENEFITS

— Residential electric sub-meter billing
— Multi-tariff allows for full recuperation of energy use
— Energy management through multi-parameter metering
— Real-time alarming
— Wireless operated so and network cabling required

Specifications

COMMUNICATIONS

Protocol	LoRaWAN 1.0.3 Compliant
Frequency	860 to 1020 MHz

PERFORMANCE CRITERIA

Nominal voltage	120V or 230V AC
Operational voltage	80%~120% of Nominal
Max rated current	100A
Operational frequency range	50 or 60Hz
Maximum reading	999999.9 kWh

ACCURACY

Voltage and current	0·5%
Frequency	0·2% of mid-frequency
Power factor	1% of unity (0.01)
Reactive energy(Varh)	Class 2
Active energy (Wh)	Class 1

PERFORMANCE

Operating temperature	-25°C - +55°C
Storage temperature	-40°C - +70°C
IP rating	51

CERTIFICATIONS

EMC compliance	EN61326-1:2013 EN61326-2-3:2013
Low voltage directive	EN61010-1-2010 EN61010-2-30-2010
MID directive	2014/32/EU