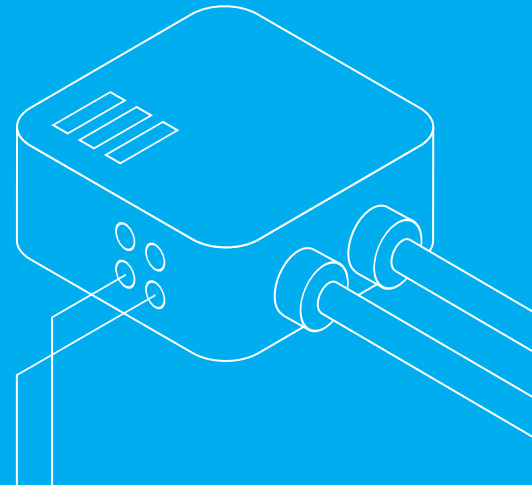


A smart way to manage your energy network

Our SmartValve is a secure valve control unit that provides energy service providers the ability to remotely manage and instantly control the supply of energy to their customers.



Introducing the cThings® SmartValve+

Our SmartValve+ remotely monitors and controls the supply of energy to properties. This way energy providers can avoid the risk of accidental or deliberate non-payment of bills through smart billing and energy wastage through the supply to non-occupied properties.

The unit uses the latest LoRaWAN technology, providing high-grade security, up to 10 km line-of-sight range and deep in-building penetration. An ideal solution for high and low density urban living. All this gives the energy service provider peace of mind.

The unit features the ability to read energy meters over M-Bus. This can be used with the ability to control a valve to highlight potential energy fraud and supply issues.

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

FEATURES

- Instantaneous valve control
- Long-range (deep in-building penetration)
- End-to-end security
- Bi-directional communication (Class C LoRa)
- Actual valve feedback
- Remote valve control and meter data over cThings Cloud API
- Ability to read up to three M-Bus slaves

BENEFITS

- Remote shutdown of unoccupied residences to reduce avoidable costs
- Can mitigate the risk of utility debt
- Fraud prevention system
- Remote meter reading and data collection
- Removes the need to send engineers to manually operate valves
- Simple out of the box installation
- Real-time alarming

SmartValve+ Specifications

SmartValve

PRODUCT CODE

SmartValve+ 2001201

COMMUNICATIONS

Protocol	LoRaWAN 1.0.3 Compliant
Frequency	EU863-870
Transmit Power	14 dBm
LoRaWAN Features	Class C, OTAA, ADR
Wired M-Bus	Up to three M-Bus slaves

ELECTRICAL

Nominal Voltage	110-240 VAC (+/- 10%)
Frequency	50/60 Hz
Max. Power Consumption	Less than 2.5 W
Power consumption (nominal)	Less than 1 W
Installation Category	CAT3
Relay Output Voltage	Volt Free or 240 V
Relay Output Max. Load	5 A

MECHANICAL

Dimensions (W x H x D)	149 x 87 x 41 mm
Protection Class	IP50
Terminal Connections	3 mm

ENVIRONMENTAL

Operating Temperature	0°C to 45°C
Storage Temperature	0°C to 45°C
Usage Environment	Indoors
Relative Humidity	20% to 80% RH non-condensing

CERTIFICATIONS

Safety Compliance	EN 61010-1
EMC Compliance	EN 60730-1, EN 55032 & EN 55014-1 Residential

i IMPORTANT

- For optimal performance of the SmartValve Battery and connected valves, regular maintenance, servicing and active network management must be undertaken

