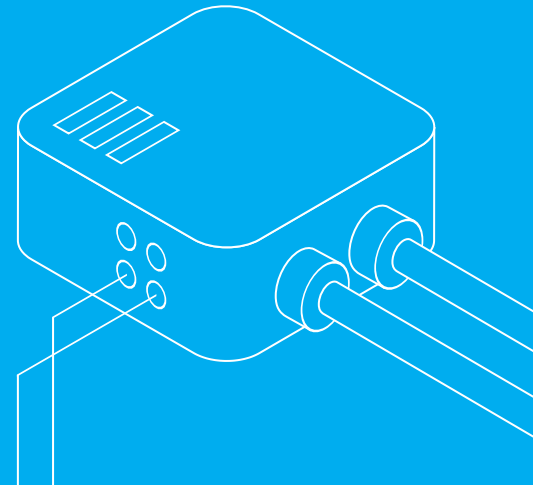


# A smart way to manage your energy network

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 feedback from a valve to determine its state. This can be used with energy meter data to highlight potential energy fraud and supply issues.

Through our bespoke cThings Cloud API the unit can be controlled and monitored, by 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 over cThings Cloud API

### BENEFITS

- Remote shutdown of unoccupied residences to reduce avoidable costs
- Can mitigate the risk of utility debt
- Fraud prevention system
- 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 2001101

## COMMUNICATIONS

Protocol LoRaWAN 1.0.3 Compliant  
Frequency EU863-870  
Transmit Power 14 dBm  
LoRaWAN Features Class C, OTAA, ADR

## 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

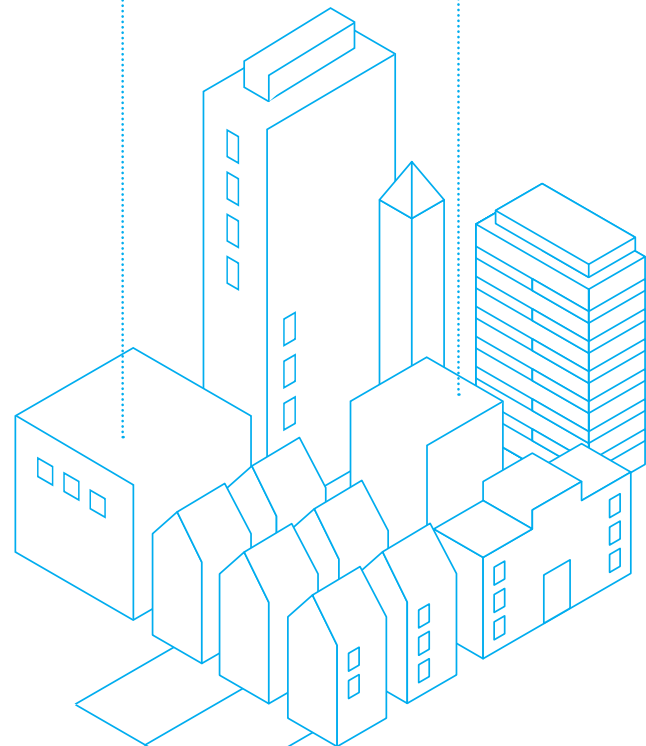
Operating temperature 0°C to 45°C  
Storage temperature 0°C to 45°C  
Usage environment Indoors  
Relative humidity 20% to 80% RH non-condensing

## CERTIFICATIONS

Safety compliance EN 61010-1  
EMC compliance EN 60730-1, EN 55032 & EN 55014-2

### **i** IMPORTANT

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



Contents herein do not constitute a warranty and are for reference