



Description

The MClimate 16A Dry Switch LoRaWAN is a miniature device that features a dry 16A relay. The device is small enough to fit behind most wall switches and outlets. The device has 4 terminals L, N, I, O, connecting and disconnecting I from O. The device operates in LoRaWAN Class C, features FUOTA (Firmware Upgrade Over The Air) and has overheating protection.

SKU: MC-LW-16ADS-01

Product features

- Firmware Upgrade Over The Air
- Internal temperature sensor and overheating protection

Applications

- Smart Buildings
- Residential buildings
- Commercial buildings
- Hotels
- Others

Device specifications

Mechanical specifications

WEIGHT EXCL. BATTERIES	24.5gr
DIMENSIONS	32mm x 36mm x 18mm
ENCLOSURE	PC UL-94 V0

Ambient working conditions

TEMPERATURE	-20°C to +40°C
HUMIDITY	0-80% RH (non-condensing)

Electrical specifications

POWER SUPPLY	100-240VAC / 24-30VDC
CONSUMPTION	50mA

Output circuit ratings

MAX SWITCHING VOLTAGE	240VAC / 30VDC
MAX. SWITCHING CURRENT	16A AC (8A AC for @ $\cos \varphi=0,4$) / 10A DC
MAX. SWITCHING POWER	3840W (2000W for $\cos \varphi=0,4$) AC / 300W DC
OVERHEATING PROTECTION	Yes

Safety functions

Overheating protection

Supported load types

- **Resistive** (incandescent bulbs, heating devices)
- **Inductive** (LED light drivers, transformers, fans, refrigerators, air-conditioners)

Radio/Wireless

WIRELESS TECHNOLOGY	LoRaWAN® 1.0.3
WIRELESS SECURITY	LoRaWAN® End-to-End encryption (AES-CTR)
LORAWAN DEVICE TYPE	Class C End-device
SUPPORTED LORAWAN FEATURES	OTAA, ADR, Adaptive Channels setup
SUPPORTED LORAWAN REGIONS	EU863 – 870; Other LoRaWAN regional settings available upon request
LINK BUDGET	130dB
RF TRANSMIT POWER	14dB

Wiring

Electrical diagram

