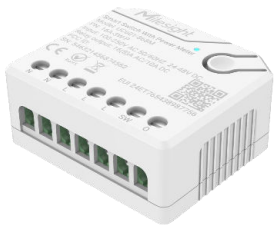
# Smart Switch

## UC601&UC611





UC601 and UC611 are ultra-compact LoRaWAN® intelligent controller series launched by Milesight. This series is designed to provide intelligent transformation solutions for traditional electrical equipment. It is extremely small in size and can be easily embedded in standard 86-boxes or device bases. UC601 is an active (wet contact) version, supporting precise power consumption statistics; UC611 is a passive (dry contact) version, suitable for a wider range of switch control scenarios.

## Features

- Ultra-compact design: 50 x 37 x 18 mm, optimized for 86-box installations and narrow spaces.
- High load control: Supports up to 16A resistive load, meeting the control requirements for high-power appliances.
- Multiple control modes: Supports LoRaWAN® standard protocol and Milesight D2D

local protocol, achieving fast response without a gateway.

- Mobile phone Bluetooth configuration: Supports quick configuration via mobile App, without the need for complex wiring or NFC card reading.
- Multiple security protections: Built-in NTC sensor monitors temperature in real time, supports over-temperature protection and over-voltage/over-current alarms (only UC601).
- Precise energy consumption management: UC601 has an internal power meter module, supporting monitoring of current, voltage, power, and cumulative energy.
- Flexible wiring: Uses a 7-terminal linear design, supporting 100-250VAC or 24-48VDC wide voltage power supply.

## ◆ Typical Applications

- HVAC Execution: Control the switches of electric underfloor heating, manifold distributors, or gas boilers.
- Industrial Control: Automatically control solenoid valves or water pumps through sensor linkage.
- Smart Socket: Transform traditional sockets with intelligent functions and monitor electricity usage.
- Industrial Control: Automatically control solenoid valves or water pumps through sensor linkage.
- Lighting Control: Achieve local and remote dual control by combining with wireless switches.

# ◆ Specifications

| Category | Parameter | UC601 | UC611 |
|---|---|---|---|
| Electrical | Operating Voltage | 100-250 VAC, 50/60 Hz or 24-48 VDC | |
| | Max. Load | Resistive: 16 A ACCapacitive / Inductive: 8 A AC10 A @ 30 V DC | |
| | Measurement | Voltage (VAC), Current (mA), Power Factor (%), Active Power (W), Power Consumption (kWh) | / |
| | Measurement Accuracy | Typical ±1%, | / |
| | Terminals | 7-pin (L×3, N×2, SW, O) | 7-pin (L×2, N×2, SW, I, O) |
| | I/O | 1× relay (wet contact) output, 1× DI input | 1× relay (dry contact) output, 1× DI input |
| Wireless Transmission | Technology | LoRaWAN®, Milesight D2D | |
| | Antenna | Internal Antenna | |
| | Frequency | IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4 | |
| | Tx Power | 16 dBm (868 MHz)/22 dBm (915 MHz) | |
| | Sensitivity | -137dBm | |
| | Mode | OTAA/ABP Class C | |
| Software | Configuration | Mobile Bluetooth or Downlink | |
| | Power Control | Local Press Button or Remote Control | |
| | Advanced Features | Rule Engine,Delay Switch, Button Lock, Over-temperature / Over-current / Over-voltage / Under-voltage Protection and alarm, Multicast, Milesight D2D | |
| Others | LED Indicator | 1 ×Power Status LED Indicator | |
| | Button | 1 × Button for Power Supply On/Off or Reset | |
| Physical Characteristics | Material & Color | Polycarbonate (UL94 V0), White | Polycarbonate (UL94 V0), Gray |
| | Ingress Protection | IP20 | |
| | Operating Temperature | -20° C to +40° C | |
| | Relative Humidity | 10% to 90% (non-condensing) | |
| | Dimensions | 50 × 42 × 18 mm | |
| | Mounting | Wall box, 3M adhesive, DIN rail (optional accessory) | |

## Dimensions(mm)

