



ACT-10

Switch

○ INTRODUCTION

The ACT-10 switch allows users to remotely switch any electrical load of up to 16A via the web using EpiSensor's SiCA Platform.

Using reliable and secure Zigbee wireless communications, multiple ACT-10 Switches can be connected to a SiCA Gateway and controlled using EpiSensor's SiCA Studio software.

Schedules can be defined which allow users to switch a load based on a time, date or event.

The ACT-10 has a waterproof enclosure allowing it to operate in harsh industrial environments and will function over a wide range of input voltages.

○ APPLICATIONS

The ACT-10 switch can be used to reduce electricity consumption by automating the process of powering down electrical equipment in offices, factories, warehouses or any other commercial buildings.

It allows facility managers to implement advanced and adaptive energy efficiency policies in buildings. The ACT-10 can also be used by utilities for advanced demand-response systems, allowing utilities to remotely control appliances, HVAC equipment and machinery from a central location to reduce peak demand and increase overall efficiency in electricity distribution systems.

○ FEATURES

Switch up to 16A remotely, via the web

Increase energy efficiency by:

- automating HVAC systems
- reducing peak energy demand
- automating appliances & lighting equipment
- remotely controlling heaters & refrigeration systems

Fully wireless communications

Operates from 75V - 265V AC

Secure & Reliable Zigbee communications

Waterproof enclosure (IP67)

SiCA Platform compatible

○ SPECIFICATION

Wireless: IEEE 802.15.4 (ZigBee PRO)

Radio Frequency: 2.4 Ghz ISM Band

Security/Encryption: 128bit AES Encryption

Dimensions: 144 x 112 x 35 mm

Enclosure: Polycarbonate, IP67

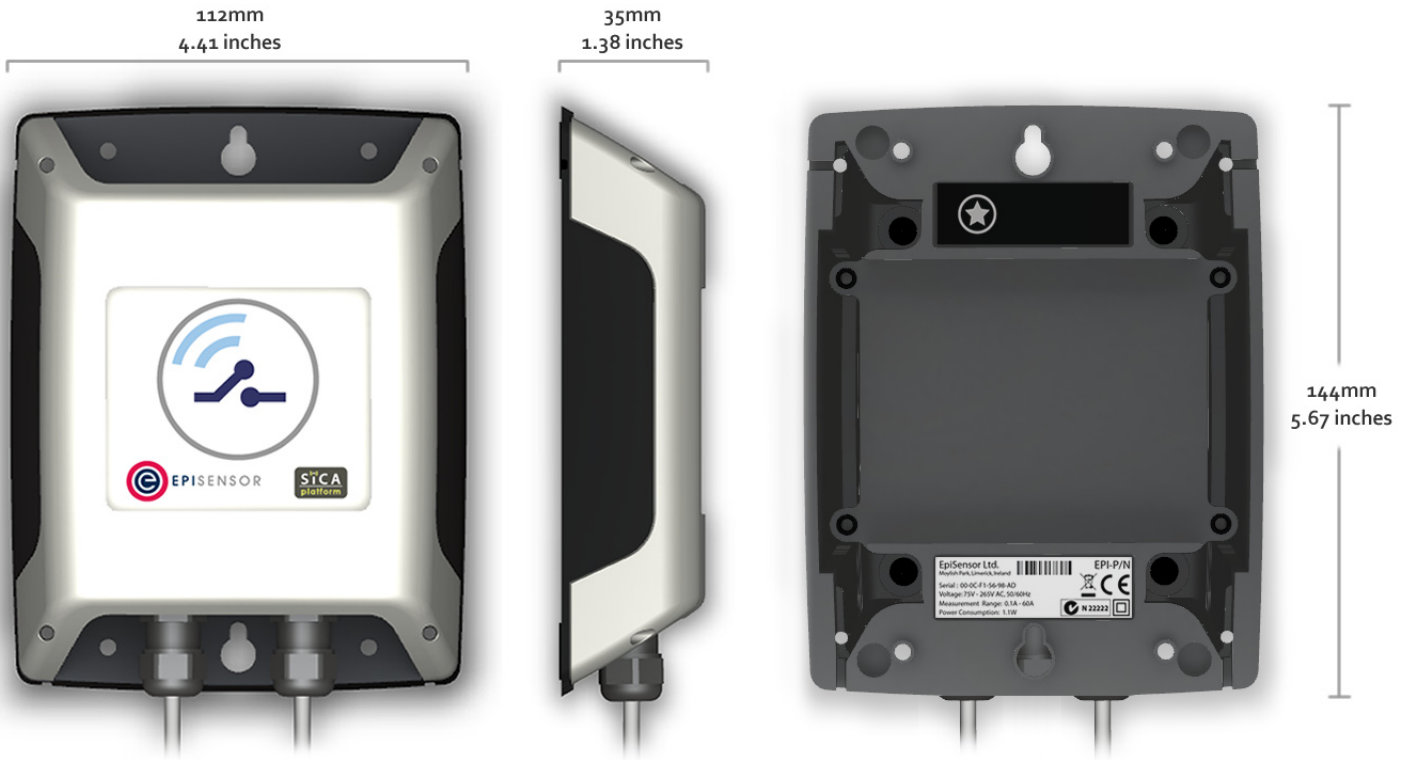
Mounting: Wall or pole mounting flanges

Operating Temperature: -40°C to +85°C



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○ SWITCH

Parameter	Value
Max Switching Current	16A (3.8kW @ 240V AC)
Power Supply	75V - 265V AC Mains
Power Consumption	1.1W
Switch Technology	Electronically Assisted Latching Relay
Connection Options	(see ACT-10 user guide)
Certification	CE

○ WIRELESS

Parameter	Value
Max Tx Power	+3dBm (+5dBm in Boost Mode)
Rx Sensitivity	-98dBm @ 1% Packet Error Rate
Radio Frequency	2.4 Ghz ISM Band
Channels	16 Channels (11 - 26)
Data Rate	up to 250 kbits/sec
Encryption	128bit AES Encryption
Indoor Range	up to 50m
Outdoor Range	up to 300m (direct line of sight)

○ PHYSICAL

Parameter	Value
Dimensions	144 x 112 x 35 mm
Weight	350g
Mounting	Wall Mounting Flanges
Enclosure	Polycarbonate Plastic, IP67 rated
Operating Temperature	-40°C to +85°C
Operating Humidity	up to 80% (non-condensing)

○ APPLICATIONS

- Demand-Response Systems
- Commercial Building Automation
- Remote HVAC & Refrigeration Control
- Energy Efficiency Initiatives in Buildings
- Remote lighting control
- Carbon Footprint Reduction
- Remote control of boiler & heating systems

○ APPLICATION AREAS

- Public, Commercial & Industrial Buildings
- Utilities (Demand-Response Systems)
- Manufacturing & Logistics
- Hospitality, Retail