# OCOTILLO Energy

# ENISCOPE AIR SWITCH

## Device level monitoring & intelligent control

## Overview

**Eniscope Air Switch is an RF connected and controlled device offered as part of the 'Eniscope Air' suite of wireless energy saving products. It measures the power consumed by an attached device and allows the device to be turned on or off remotely.**

This can be housed in various ways depending on its application and includes a soft override switch. This solution has a variety of real-world applications, but has been designed particularly with plug-loads, like food warmers, chip dumps and bottle fridges, in mind.

## Unique Features

Unique features include; true power measurement, higher switching capacity than competitive devices, tamper and weather-proof construction and Eniscope Air compatibility for long-range control and scheduling.

Eniscope Air Switch has been built as an extension to the functionality provided on thousands of sites worldwide by Eniscope - the multi-channel, real-time energy monitoring hub. Simply plug an 'Air Connect' into an incumbent Eniscope to enable all the functionality required.

## Example Applications

- Control a food warming cabinet to eradicate out-of-hours consumption

- Monitor power consumption of a drinks machine to flag maintenance issues

- Switch an asset on or off, depending on whether a room is occupied, humid, warm or well lit.

And many more!

## Core Functionality

**Asset-Level Energy Monitoring**

**Asset Cloud Scheduling** (1-Phase)

**Asset Performance Improvements**
(In conjunction with Air Sense environmental data)

## Key features

| | | | |
|---|---|---|---|
| Model | AD104/1 | Operating temperature | -30 - +40° |
| Supply voltage | 100 – 277 VAC -10%/+6% (internally fused) | Temperature input | 1 wire digital DS18 type -10°C to +85°C +/-0.5°C (using best.energy sensor probe) -55°C to +125°C +/-2°C (using Best.Energy sensor probe) |
| Fuse rating | 15mm 1 amp Littlefuse 209 series | | |
| Power requirements | Less than 10 watts | Altitude | 1000M – De-rate 1% per additional 100M |
| Switch circuit current rating | 20 amps resistive | Dimensions | H120, W200, D100mm |
| Switch circuit motor rating (inductive) | 2.5kW @ 277VAC, \| 2.2kW @ 220VAC, 1.1kW @ 120VAC | Weight | 1.3Kg |
| Switching Element | Triac | Safety | CE to EN 60730-1:2016 |
| Inductive rating starts per hour | 20 evenly placed starts per hour @ full rating | LoRa Wireless Bands | Band 1 - 16 Channels, 865MHz – 870MHz Band 2 - 16 Channels, 915MHz – 925MHz |
| Internal switch circuit fuse rating | 10x38mm Body – 20A Ferraz A070GRB20T13 | | |
| LED indication | Power On, LoRa link | | |
| Local override | Volt free contacts for On & Off | | |
| PIR input | PIR input and DC power supply 5V, 9V, 12V or 24V rated at 1 amp | | |
| Enclosure type | Polycarbonate | | |
| Enclosure rating | IP65 | | |

"Remote, scheduled energy management can be incredibly effective – turning a 'dumb' device like a food warmer into something more responsive to the building's real needs. The Eniscope Air Switch is a hugely cost-effective product for introducing that sort of automated intelligence."

**Troy Wrigley, CEO @ Best.Energy**

## Discover the full range



**AIR AMBIENT**    **AIR DIGITAL**    **AIR CONNECT**    **AIR SWITCH**    **AIR SENSE**

**No WiFi connection Required.**
With a dependable LoRa network, this device limits the need for unreliable and costly WiFi networking.

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