

NATURE SWITCH - ATM

SIMPLY SAVE ENERGY



Apart from the Cash Machine, the ATM Centre's electrical load consists of Air Conditioners, Outdoor Signage and Indoor Lighting drawn from raw power. Manual operation of these loads is not only uncertain but also prone to energy wastages. Timer based control involves skill in time setting and seasonal resettings. Given high energy tariff there is a serious need to save energy. **Nature Switch-ATM** offers a versatile and combined solution with intelligence for automatic operation of both signage and Air Conditioner without any manual settings and offers electrical protection.

NATURE SWITCH-ATM is designed for automatic control of signage and air conditioner in an ATM, using advanced infrared sensing and microcontroller based logic for control of all varieties of air conditioners, which are switched ON/OFF based on the need with attention free operation. This reduces manual costs, saves power bills and pays for itself

Salient Features

- ✓ Automatic **switching ON** of Signage at **SUNSET** based on Infrared Light Sensing.
- ✓ Automatic **switching OFF** of Signage at **SUNRISE** based on Infrared Light Sensing.
- ✓ Automatic Switch OFF of the Air Con unit after 4 hours from SUNSET.
- ✓ Automatic restart of the Air Con unit from SUNRISE or 2 hours from SUNRISE.
- ✓ Automatic cycling of the Air Con units as selected during the day.
 - **For Single Air Con model:** 2 hours ON and 30 minutes OFF or as desired by the user.
 - **For Dual Air Con model:** 2 hours ON and 2 hours OFF of each Air Con alternatively or as desired by the user.
- ✓ Automatic **over voltage** sense, **trip** and auto reset.
- ✓ Automatic **low voltage** sense, **trip** and auto reset .
- ✓ Wide operating voltage range 150-260 VAC.
- ✓ No need of seasonal settings.

**ENERGY SAVED
IS
ENERGY GENERATED**

OUR SATISFIED CUSTOMERS



GENERAL SPECIFICATIONS:

NATURE SWITCH-ATM is a light sensor cum timer based device for automatic control of Signage and Air Conditioners in an ATM centre. It is an electronic device which can be mounted directly outdoors. It's enclosure conforms to IP65 and is made of special engineering plastics providing protection from rust, electric shock, termites dust, rain, temperature and solar radiation. It offers automatic switching ON and switching OFF of the signage, indoor lighting and Air Conditioners in the ATM centre without involving any time settings at the field without any real clock linkage.

ELECTRICAL and OPERATIONAL SPECIFICATIONS:

AUTO OVER/LOW VOLTAGE TRIP AND RESET:

Over voltage trip	:	> 260 VAC*
Auto over voltage reset	:	< 250 VAC*
Low voltage trip	:	< 150 VAC*
Auto low voltage reset	:	> 160 VAC*

For Signage:

Automatic Switching ON : At Sunset.

Automatic Switching OFF: At Sunrise.

Illuminance for Switch 'ON'* : <60 lux for >30 seconds

Illuminance for switch 'OFF'*

1. In Field : >10 lux**
2. In lab : > 60 lux for >30 seconds.

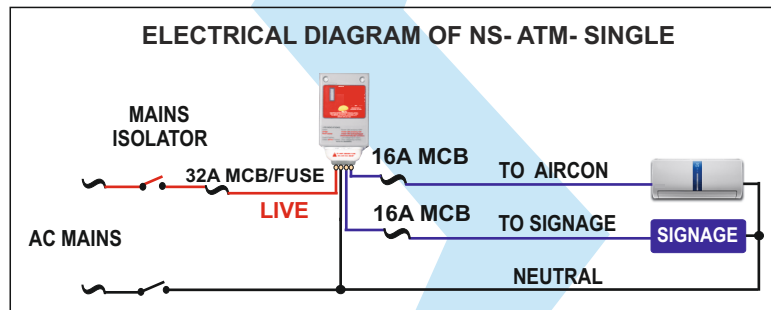
* under standard test conditions.

Switching Cycle of Single Air conditioner model:

Automatic Switching ON at SUNRISE

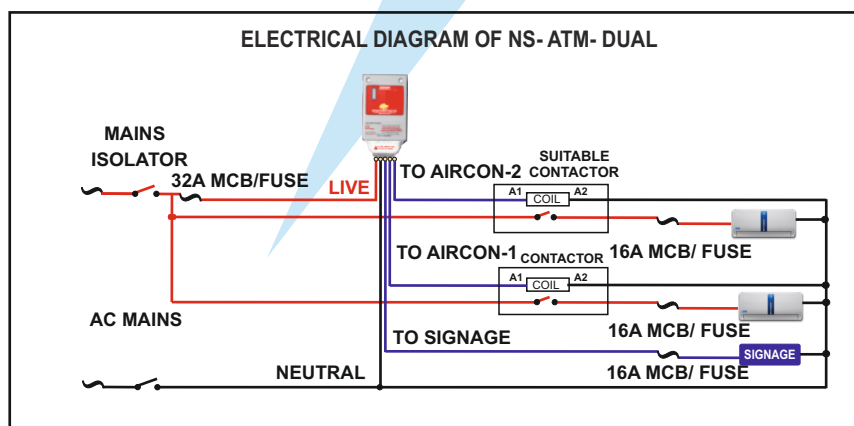
Switching Cycle: 2 hours ON and 30 minutes OFF

Automatic Switching OFF at 4 hours after SUNSET



Switching Cycle of Dual Air conditioner model:

The Air Conditioners will be ON from Sunrise and will be OFF after 4 hours from Sunset. Immediately after Sunrise Air Con 1 will be ON and after 2 hours the Air Con 1 will be OFF and Air Con 2 will start working. This way they work alternatively for 2 hours one after the other and both will go OFF during late night.



KAKATIYA ENERGY SYSTEMS PVT LIMITED

D-2, Industrial Estate, Moula Ali, Hyderabad - 500 040.

Ph: 040 - 2724 2121 (4-Lines), Fax: 040 - 2724 2125

E-mail: mail@natureswitch.com

Website: www.natureswitch.com

An ISO 9001- 2008 Company