

Astronomical Digital Time Switch

This digital time switch is designed for precise time-based control of electrical circuits. It features astronomical timing capabilities, automatically adjusting switching schedules based on sunrise and sunset times.



ADDITIONAL IMAGES



Overview

Intelligent Astronomical Control

The AHD16T astronomical time switch provides automated ON/OFF control based on precise geographic coordinates, including longitude, latitude, and local time zones. By eliminating the need for manual adjustments to track changing sunrise and sunset times, it ensures optimal energy efficiency for lighting and electrical systems. This digital device is designed for reliable performance in industrial automation, building management, and residential applications.

Electrical Specifications

Input Voltage	AC/DC 12V, AC/DC 24V, AC 110V, AC 220V
Frequency	50Hz / 60Hz
Switching Capacity	16A / 20A

Load Capacity

Maximum Recommended Load (10,000 operations)

Load Type	Capacity
Filament / Halogen lamp (230V)	2600 W
Energy saving lamps	170 W
LED lamp < 2 W	30 W
LED lamp 2–8 W	100 W
LED lamp > 8 W	120 W
Fluorescent (electronic ballast)	650 W
Fluorescent (conv. not corrected)	1000 VA
Fluorescent (conv. series-corrected)	1000 VA
Fluorescent (conv. parallel-corrected)	730 VA (80%)

Technical Data

Performance Metrics

1 Min

Minimum Interval

2 Sec/day

Time Accuracy

Environmental & Build

- Housing: Self-extinguishing thermoplastic
- Protection: IP 20
- Class: II (EN 60 730-1)
- Ambient Temperature: -10 to +50 °C (non-icing)

Test Approval

CE