Model: *AOT-210*

Maximum Outputs: 16

Introduction

- AOT schedule controller is designed to carry out its task according to a pre-configured schedule. Schedule control is often used in HVAC, lighting, security and energy management applications.
- AOT can activate or deactivate one or more outputs when the specified time in the schedule is up. It can even be used to adjust one or more control parameters such as temperature settings in an HVAC system.
- AOT can send outputs to PLC or other IO devices through serial or Ethernet interface to control the action of equipment. AOT support both Modbus RTU and Modbus TCP for IO devices connection.

Applications

- HVAC Control
- Lighting Control
- Security
- Power and Energy management
- Utility Administration

Features

Robust Hardware

- High performance RISC CPU
- Built-in RTC with battery backup
- High capacity non-volatile flash memory for schedule and setting storage
- Connected to PC through Ethernet interface for schedule download and operation monitoring

Communication Interface

- 10/100 Ethernet interface for configuration
- 1 RS-232 serial interface for control output
- Support Modbus RTU and Modbus TCP protocol with master mode

Flexible Schedule

- Each main schedule includes routine weekly schedule, multiple holiday schedules, and event schedule to provide the most flexible schedule usage.
- Holiday schedules can be defined to replace routine weekly schedule.
- Multiple actions can be defined for each day.
- Multiple common holidays can be defined. Each main schedule can define its own action for holidays.
- Any schedule action can be sent to multiple outputs.
- Scheduled actions can be disabled.

Easy Programming

- Provide AOT configuration software for schedule programming and operation monitoring.
- Configuration and operation are done through Ethernet interface.
- AOT operation can be monitored and controlled.
- Multiple AOT schedule controller can be managed by the same PC.

Specification

Basic

- High performance RISC CPU
- FLASH memory storage
- Real time clock (RTC) with battery backup

Power

- Power input: DC 12-24V
- Power consumption: max. 5W

Communication

- 10/100 Ethernet: 1 , RJ45 (used for configuration only)
- RS-232 serial interface: 1, DB9

Indication and Operation

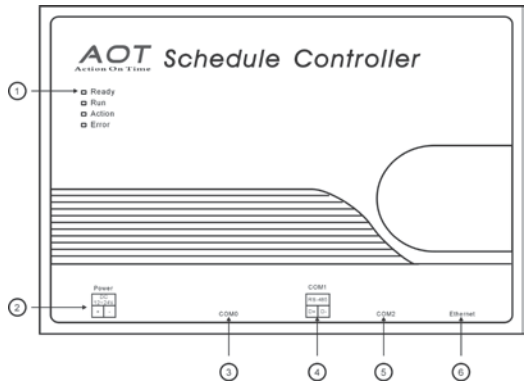
- LED: 4 (Power, Run, Action, Error)
- Button: 1 (Reset)

Mechanical

- Size: 220mm(L) ×150mm(W) ×35mm(H)

Schedule Capacity

- Output device: 1, one device can be connected through RS-232 interface for output.
- Output points: 16, up to 16 output points in the connected output devices can be controlled.
- Main schedule: 16, each main schedule can control multiple outputs.
- Holidays: Up to 64 holidays common to all main schedules can be defined.
- Action: Up to 12 actions can be defined for each day in weekly, holiday schedule and special date schedule.



(1) LED: Indication of controller status.
(2) Power: DC Power input
(3) COM0: RS-232 port for control output
(4) COM1: RS-485 port for control output
(5) COM2: RS-232 port for control output
(6) Ethernet: Ethernet port for configuration and control output
(7) Reset button

Model: *AOT-220*

Maximum Outputs: 256

Introduction

- AOT schedule controller is designed to carry out its task according to a pre-configured schedule. Schedule control is often used in HVAC, lighting, security and energy management applications.
- AOT can activate or deactivate one or more outputs when the specified time in the schedule is up. It can even be used to adjust one or more control parameters such as temperature settings in an HVAC system.
- AOT can send outputs to PLC or other IO devices through serial or Ethernet interface to control the action of equipment. AOT support both Modbus RTU and Modbus TCP for IO devices connection.

Features

Robust Hardware

- High performance RSIC CPU
- Built-in RTC with battery backup
- High capacity non-volatile flash memory for schedule and setting storage
- Connected to PC through Ethernet interface for schedule download and operation monitoring
- Web interface for operation setting and monitoring

Communication Interface

- 10/100 Ethernet interface for configuration and control output
- 2 RS-232 serial interface for control output
- 1 RS-485serial interface for control output
- Support Modbus RTU and Modbus TCP protocol with both master and slave mode

Flexible Schedule

- Each main schedule includes routine weekly schedule, multiple holiday and special date schedule, event schedule and override schedule to provide the most flexible schedule usage.
- Conditions can be defined based on date range. Independent weekly schedules can be defined for each condition to extend the flexibility of each main schedule.
- Holiday and special date schedules can be defined to replace routine weekly schedule.
- Event schedules can be defined to add extra action upon routine weekly schedule.
- Override schedules can be defined for temporary maintenance or testing actions.
- Multiple actions can be defined for each day.
- Multiple sets of common holidays can be defined. Each main schedule can define its own action for each set of holidays.
- Each main schedule can define its own special dates with associated scheduled actions independently.
- Any schedule action can be sent to multiple outputs.
- Scheduled actions can be disabled.

Easy Programming

- Two method for schedule programming and operation：
  - AOT configuration software
  - Web
- Configuration and operation are done through Ethernet interface
- AOT operation can be monitored and controlled.
- Multiple AOT schedule controller can be managed by the same PC.

Specification

Basic

- High performance RISC CPU
- FLASH memory storage
- Real time clock (RTC) with battery backup

Power

- Power input: DC 12-24V
- Power consumption: max. 5W

Communication

- 10/100 Ethernet: 1 , RJ45
- RS-232 serial interface: 2, DB9
- RS-485 serial interface: 1

Indication and Operation

- LED: 4 (Power, Run, Action, Error)
- Button: 1 (Reset)

Mechanical

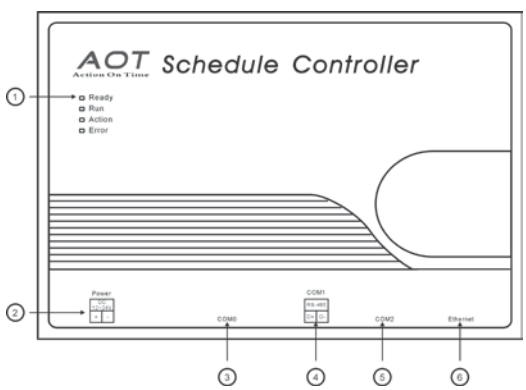
- Size: 220mm(L) ×150mm(W) ×35mm(H)

Schedule Capacity

- Output device: 64, up to 64 devices can be connected through serial or Ethernet interface for output.
- Output points: 256, a total of up to 256 output points in all connected output devices can be controlled.
- Main schedule: 256, each main schedule can control multiple outputs.
- Condition: 2, each main schedule can define independent weekly schedule for each condition.
- Special dates: 64, each main schedule can define up to 64 special dates with actions for each date.
- Event schedule: 64, each main schedule can define up to 64 specific date and time with actions taken on these date and time.
- Holidays: 2 set of holidays common to all main schedules. A combined of up to 64 holidays can be defined for the two holiday sets.
- Action: 12, up to 12 actions can be defined for each day in weekly, holiday schedule and special date schedule.
- Override: Scheduled action can be overridden for temporary maintenance or testing actions

Applications

- HVAC Control
- Lighting Control
- Security
- Power and Energy management
- Utility Administration



(1) LED: Indication of controller status.
(2) Power: DC Power input
(3) COM0: RS-232 port for control output
(4) COM1: RS-485 port for control output
(5) COM2: RS-232 port for control output
(6) Ethernet: Ethernet port for configuration and control output
(7) Reset button

Model: *AOT-230*

Maximum Outputs: 1024

Introduction

- AOT schedule controller is designed to carry out its task according to a pre-configured schedule. Schedule control is often used in HVAC, lighting, security and energy management applications.
- AOT can activate or deactivate one or more outputs when the specified time in the schedule is up. It can even be used to adjust one or more control parameters such as temperature settings in an HVAC system.
- AOT can send outputs to PLC or other IO devices through serial or Ethernet interface to control the action of equipment. AOT support both Modbus RTU and Modbus TCP for IO devices connection.

Features

Robust Hardware

- High performance RISC CPU
- Built-in RTC with battery backup
- High capacity non-volatile flash memory for schedule and setting storage
- Connected to PC through Ethernet interface for schedule download and operation monitoring
- Web interface for operation setting and monitoring

Communication Interface

- 10/100 Ethernet interface for configuration and control output
- 2 RS-232 serial interface for control output
- 1 RS-485 serial interface for control output
- Support Modbus RTU and Modbus TCP protocol with both master and slave mode

Flexible Schedule

- Each main schedule includes routine weekly schedule, multiple holiday and special date schedule, event schedule and override schedule to provide the most flexible schedule usage.
- Conditions can be defined based on date range. Independent weekly schedules can be defined for each condition to extend the flexibility of each main schedule.
- Holiday and special date schedules can be defined to replace routine weekly schedule.
- Event schedules can be defined to add extra action upon routine weekly schedule.
- Override schedules can be defined for temporary maintenance or testing actions.
- Multiple actions can be defined for each day.
- Multiple sets of common holidays can be defined. Each main schedule can define its own action for each set of holidays.
- Each main schedule can define its own special dates with associated scheduled actions independently.
- Any schedule action can be sent to multiple outputs.
- Scheduled actions can be disabled.

Easy Programming

- Two method for schedule programming and operation：
  - AOT configuration software
  - Web
- Configuration and operation are done through Ethernet interface
- AOT operation can be monitored and controlled.
- Multiple AOT schedule controller can be managed by the same PC.

Specification

Basic

- High performance RISC CPU
- FLASH memory storage
- Real time clock (RTC) with battery backup

Power

- Power input: DC 12-24V
- Power consumption: max. 5W

Communication

- 10/100 Ethernet: 1 , RJ45
- RS-232 serial interface: 2, DB9
- RS-485 serial interface: 1

Indication and Operation

- LED: 4 (Power, Run, Action, Error)
- Button: 1 (Reset)

Mechanical

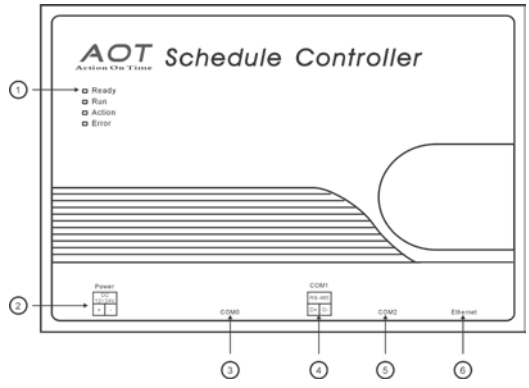
- Size: 220mm(L) ×150mm(W) ×35mm(H)

Schedule Capacity

- Output device: 64, up to 64 devices can be connected through serial or Ethernet interface for output.
- Output points: 1024, a total of up to 1024 output points in all connected output devices can be controlled.
- Main schedule: 1024, each main schedule can control multiple outputs.
- Condition: 4, each main schedule can define independent weekly schedule for each condition.
- Special dates: 64, each main schedule can define up to 64 special dates with actions for each date.
- Event schedule: 64, each main schedule can define up to 64 specific date and time with actions taken on these date and time.
- Holidays: 3 set of holidays common to all main schedules. A combined of up to 64 holidays can be defined for the two holiday sets.
- Action: 96, up to 96 actions can be defined for each day in weekly, holiday schedule and special date schedule.
- Override: Scheduled action can be overridden for temporary maintenance or testing actions

Applications

- HVAC Control
- Lighting Control
- Security
- Power and Energy management
- Utility Administration



(1) LED: Indication of controller status.
(2) Power: DC Power input
(3) COM0: RS-232 port for control output
(4) COM1: RS-485 port for control output
(5) COM2: RS-232 port for control output
(6) Ethernet: Ethernet port for configuration and control output
(7) Reset button