Addressable Relay Output Device

SmartOne®

FEATURES

- **Full-Digital Communications**
- **Addressable Control Point**
- **Unpowered, SPDT Relay Contacts**
- **Control-by-Event And/or By Time Operation**
- **Status Indicator**
- **Unique Internal Supervision**
- **UL Listed**
- **FM Approved**
- **CSFM Approved**

DESCRIPTION

The SmartOne® Addressable Relay Output Device (AO) is an addressable output module for control of auxiliary equipment such as air handlers, door release and elevator recall.

The AO connects directly to a compatible control unit's signaling line circuit (SLC) and contains a SPDT relay to control auxiliary equipment. All of the electronics are contained in a small high-impact polymer case. This creates a small and durable device for installation.

FIELD PROGRAMMING

The AO is field programmable with a unique four-digit address and a 40-character owner location message. The AO relay may be set or reset on command from the control unit.

In addition to combinational-logic programming that utilizes system inputs (i.e., events) to activate this device, the unit may be programmed for real-time clock operation. The real-time clock programming permits the AO to be activated and deactivated by the time of day, calendar date and day of the week.
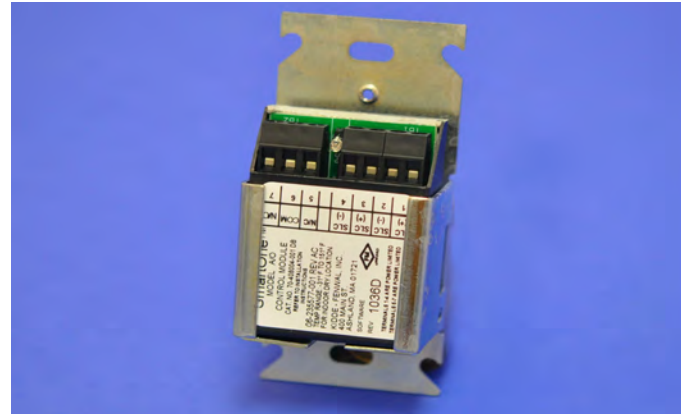
SUPERVISION

The AO is continuously monitored for:

- Internal power supply voltages
- Faulty entering of data into AO's memory
- Relay state equals command state

An internal set of relay contacts provides a feedback signal that confirms the activation of the addressable relay output. If the relay fails to operate at the appropriate time, the device transmits a trouble report for display by the control unit.

STATUS LED

A status LED is mounted on the unit.

SPECIFICATIONS

Input Voltage:
- 16.5 - 27.5 VDC

Standby Current:
- 400 µA, Typical

Alarm Current:
- 400 µA, Typical

Contact Ratings:
- Resistive Contact Rating:
  - 2 A @ 30 VDC
- Inductive Rating (Motor Control):
  - 1.0A @ 30 VDC, 0.6 PF.6A @ 120 VAC, 0.35 PF
- Pilot Duty
  - 0.6A @ 30 VDC, 0.35 PF

Operating Environment:
- -31°F - 151°F (-35°C - 66°C) at 0-95% RH

EMI Immunity:
- Meets UL 864

Dimensions:
- 2.3" x 1.8" x 0.8" nominal

Shipping Weight:
- 5.1 oz (145g)

LED Pulse Modes:
- Normal:
  - 9 second interval
- Trouble:
  - LED is off
- Alarm:
  - 2 second interval

Acceptable Wire Size:
- 14, 16, 18 AWG

Installation:
The AO can be mounted in a North American 1-1/2-in. (64 mm) deep 1-gang box, or standard 4-in. square box 1-1/2-in. (38 mm) deep with a cover.