7 DAY PROGRAMMABLE TIMER

FAN CONTROLS

(P/N 29 023) **SPEC & IOM**

LIMITED WARRANTY 1 YEAR

READ AND SAVE THESE INSTRUCTIONS

Product Description

The ALDES 7-Day Programmable Timer can be used to operate a ventilation system during specific occupied periods, such as business hours, or when occupants are normally present. The timer can switch low-voltage circuits from 12V up to 240 VAC and motor loads of 1 to 2 hp. This feature enables its use on low-voltage circuits to control heat or energy recovery ventilators, or on line-voltage circuits to control a fan directly. It has a manual override feature to interrupt the programmed schedule, if needed. With dry-contact switching, it may be wired in parallel with other dry-contact switches to control a common load, such as a central multi-port exhaust fan controlled from several bathrooms.

The timer may also be used to turn on lights, appliances, fans, etc., on a daily or weekly repeating schedule. For lighting functions, it can be programmed to follow daily changes in sunrise and sunset times. The unit is pre-set to follow the annual changes to Daylight Savings Time and Standard Time, and it can be changed in the future. It can be set to a random mode to provide the appearance of occupancy, even when no one is home.

Specifications

- Power Source: 120 - 277 VAC
- Frequency: 50 - 60Hz
- Current Ratings:
  15A at 120VAC
  6A at 208 - 277VAC
- Wiring Configurations:
  Single
  3-Way
- Battery Type: CR2 Lithium
- Operating Temperature (MAX): 104°F (40°C)

Features & Functions

- Controls lighting, including fluorescent, and heavy-duty loads such as fans and appliances
- LCD digital clock and read out
- Easy-to-set 6-button programming
- Up to 6 ON/OFF settings per 7-day period. A total of 42 ON and 42 OFF settings per week
- 4 separate programming options: Same settings Monday through Friday, weekends, all 7 days of the week, or individual daily settings
- Manual override feature
- Daylight Savings Time for 2016, and flexible for future changes, if needed
- Astronomic feature automatically changes sunrise and sunset times. No re-setting needed; set it once and never set it again.
- Random setting feature available to avoid the predictable "timer-controlled" look
- To-the-minute setting accuracy
- For single-pole and three-way applications up to 100 feet away
- Flush-mount design
- Use with decorator-style wall plate (not included)
- No neutral wire required
- Battery back-up prevents program loss due to power failure

Electrical Ratings

- Resistive: 15 A at 120-277 VAC
- Tungsten: 15 A at 120 VAC, 6 A at 208-277 VAC
- Ballast: 8 A at 120 VAC, 4 A at 208-277 VAC
- Motor: 1 hp at 120 VAC, 2 HP at 240 VAC
- DC Loads: 4 A at 12 VDC, 2 A at 28 VDC

Precautionary Information

All wiring must conform to local and national electrical codes and ordinances. Do NOT use this timer to control devices that could have dangerous outcomes due to misjudged timing, such as: sun laps, crock pots, heaters, saunas, etc.

WARNING! USE COPPER CONDUCTORS ONLY. DANGEROUS VOLTAGES ARE PRESENT ON THE CIRCUIT BOARD WHEN CONNECTED TO THE POWER LINE. POWER MUST BE REMOVED BEFORE MAKING ANY CONNECTIONS OR ADJUSTMENTS TO AVOID ELECTRICAL SHOCK OR DAMAGE TO THE UNIT.

CAUTION: Replace ONLY with the same type of Lithium battery. Using a different type of battery could cause risk of fire or explosion when disposed. Do NOT heat above 212°F (100°C), recharge, disassemble, crush, or incinerate the battery.

NOTE: If the battery is not replaced promptly when the timer becomes weak, the timer could become damaged due to battery leakage.

Operation

Ensure that the installed timer displays "MAN" mode on its display screen. Test the connections by pressing the ON/OFF button several times on the switch timer. Each time this is done the timer should "click" and the the controlled device should turn on or off. To set or rest the timer:

1. Hold down the ON/OFF button and use a paperclip to press and release the RESET button.
2. Continue to hold down the ON/OFF button until *INIT* appears on the screen.
3. Release ON/OFF.

The CR2 Lithium battery provides the timer with two or more years of keeping time without AC power. All personal settings are saved in the timer once installed, therefore, no resetting is needed.

Installation

Be sure the battery provided is installed and working before installing the 7-Day Programmable Timer into the wall. If this is a new installation, it is recommended to set up and program the timer before installing it in the wall.

1. Disconnect electrical power.
2. Determine the location of the timer.
3. Remove the existing wall switch.
4. Trim the building wires to 7/16."

SINGLE-SWITCH SETUP

a. Connect one of the two wires from the wall to the BLACK wire on the 7-Day Programmable Timer using the provided twist connectors.
b. Connect the other wire from
c. the wall to the BLUE wire on the timer.
NOTE: The RED wire is not used in a single-switch installation. Cap with a twist connector.
d. Connect the GREEN wire on the timer to the grounding screw in the box.
e. Ensure all twist connectors are tight.

3-WAY SWITCH SETUP CONTINUED ON NEXT PAGE

Installation (continued)

3-WAY SWITCH SETUP

***NOTE:** The distance between the timer and the remote switch must not exceed 100 feet.*

a. Locate the COMMON wire that was connected to the old switch and connect it to the BLACK wire on the timer using a twist connector.
b. Connect the remaining two wires from the old switch to the BLUE and RED wires on the timer using twist connectors.
c. Connect the GREEN wire to the grounding screw.
d. Use **Figure 1** to identify and remove wire "C" from the "Common" terminal of the existing remote switch.
e. Use **Figure 2** to remove and reconnect wires "B" and "C" to the "Common" terminal of the remote switch. Use the supplied piece of jumper wire if needed.
f. Follow **Figure 3** if a new single-pole remote switch is being used.
g. Place the wires into the timer wall box.
h. Mount the back plate securely to a wall box with the screws provided in the parts package.
NOTE: Make sure the back plate is flat without any undue stress.
i. Re-install the front cover and secure with the cover screw supplied in the parts pack.
j. Follow steps **h** and **i** for the remote 3-way switch.

FIGURE 1

DIAGRAM 1:
TYPICAL EXISTING
2-SWITCH SETUP

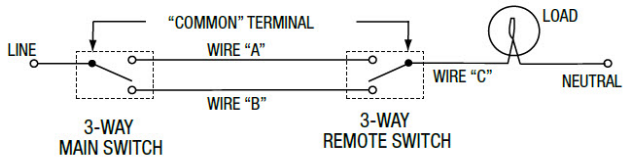

FIGURE 2

DIAGRAM 2:
2-SWITCH SETUP,
TIMER INSTALL
RE-USING EXISTING
REMOTE 3-WAY SWITCH

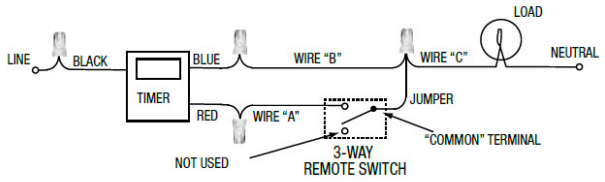

FIGURE 3

DIAGRAM 3:
2-SWITCH SETUP,
TIMER INSTALL USING
NEW SINGLE-POLE
REMOTE SWITCH