Model

611242 – Digital Multifunction Control

Description

Decora™-style wall mount electronic controller with dehumidistat, compatible with Aldes HRV and ERV air exchange systems.

Characteristics

• Compact and elegant design that fits discretely in every decor
• High-accuracy, fast-response humidity sensor
• Liquid-crystal display showing the current humidity level, setpoint, and mode of operation
• Keypad with 4 buttons to select the mode of operation, the setpoint value, and the fan speed
• Blue LED backlight configurable as a night light
• Two energy-friendly modes with automatic exchange and exchange-recirculation cycles
• Timer-controlled high-speed exchange modes for high occupancy conditions: birthdays, celebrations, etc.

Specifications

- Power entry: 22 to 26 VAC, 60 Hz
- Maximum load, high-speed control output: 10 Watts maximum (0.42 A @ 24 VAC)
- Maximum load, low-speed control output: 0.24 Watts maximum (0.01 A @ 24 VAC)
- Timer input: Compatible with Aldes Timer 611228
- Operating temperature range: 0 to 50 °C (32 to 122 °F)
- Storage temperature range: -20 to 50 °C (-4 to 122 °F)
- Dimensions: Height 102.7 mm, Width 44.3 mm, Depth 28.5 mm (4.04” x 1.74” x 1.12”)

Precautions and warnings

⚠ Always switch off the power supply to the air exchange system before and during the installation of the multifunction control.

⚠ Do not install the control on an electrical junction box embedding wires at 120 / 240VAC or else. The multifunction control must be installed on a dedicated electrical junction box or wall opening.

• First check if the multifunction control is compatible with your air exchange system before connecting and powering-up the unit. Non-compatibility could result in a dysfunction or a breakage, or could damage the air exchange system.
• Connect the multifunction control in compliance with the instructions provided in this document. An improper connection could result in a dysfunction or could damage the device.
• Do not spray any type of liquid nor apply a soaked cloth on the device. Any infiltration of liquid in the device can corrupt its operation momentarily or permanently.
• Always service your air exchange system as prescribed in its operating manual to prevent any loss of performance.
• Install the multifunction control on an internal wall for optimal reading of the ambient relative humidity.
Configuration

The multifunction control must be configured before its installation, using the 2 micro-selectors located behind the device.

- 'On': air exchange system with air recirculation
- 'Off': air exchange system without air recirculation
- 'On': electronic air exchange system
- 'Off': mechanical relay-based air exchange system

### Air exchange systems with recirculation
- 7200, 7210, 7240, 7260, 7290, 7292, 7295
- S/E/P1100(A)*, S/E/P700(A)*, 8230(S), 8260(S)
- H95, H/E110, E130-HR, H/E150, H/E190, H/E215
- H/E240-Ri, H/E650(A)-Ri, H/E1100(A)-Ri, /E1600(A)-Ri

### Electronic air exchange systems
- 7240, 7250, 7260, 7261, 7290, 7292, 7295, H95, H/E110, E130-HR, H/E150, H/E190, H/E215, S/E/P700(P/A), S/E/P1100(P/A), H/E240-Ri, H/E650(A)-Ri/Fi(P)
- H/E1100(A)-Ri/Fi(P), H/E1600(A)-Ri/Fi(P)

### Air exchange systems without recirculation
- 7250, 7261, S/E/P1100P/A**, S/E/P700P/A**
- 8230, 8260, H110, H/E650(A)-Fi(P), H/E1100(A)-Fi(P), H/E1600(A)-Fi(P)

### Relay-based air exchange systems
- 7200, 7210
- 8220, 8230, 8260

* with recirculation  ** without recirculation

Installation

Material and equipment
- The multifunction control, the Decora wall plate and its (2) screws (supplied with the multifunction control);
- The fastening hardware for mounting the control on the wall (not included), according to the type of mounting desired;
- Your air exchange system (not included) and its 4-wire cable: yellow, red, green, and blue;
- A fine flathead screwdriver (non-included) for connecting the wires to the multifunction control.

Installation over an electrical junction box

1. Disconnect the power cable of your air exchange system;
2. Install an electrical junction box (metal or plastic) at the location selected for the multifunction control;
3. Route the cable of your system to the junction box, keeping an extra length of min. 10 cm (4") to perform the connections;
4. At the end of the cable, strip 50 mm (2,5") of the outer sheath to free the four wires;
5. Strip 7 mm (1/4") of each wire's sheath. Using the screwdriver and Figure 1, connect each wire to the multifunction control;
6. Fasten the multifunction control on the electrical junction box, then fasten the Decora wall plate;
7. Connect the power cable of the air exchange system and verify the proper operation of the system.
Installation in the wall, without junction box

1. Disconnect the power cable of your air exchange system;
2. Select an adequate location for the control, insuring that no stud stands behind it, which would prevent its installation;
3. Cut an opening in the wall, 73 mm high by 45 mm wide (2-7/8" x 1-3/4"), at the selected location;
4. Route the cable of your system through the opening, keeping an extra length of min. 10 cm (4") to perform the connections;
5. At the end of the cable, strip 50 mm (2,5") of the outer sheath to free the four wires;
6. Strip 7 mm (1/4") of each wire's sheath. Using the screwdriver and Figure 1, connect each wire to the multifunction control;
7. Fasten the multifunction control to the wall with the suitable hardware, then fasten the Decora wall plate;
8. Connect the power cable of the air exchange system and verify the proper operation of the system.

Important:
This guide and the user guide are available at www.aldes.us Contact 800-244-7449 for assistance.
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- Keypad with 4 buttons to select the mode of operation, the setpoint value, and the fan speed
- Blue LED backlight configurable as a night light
- Two energy-friendly modes with automatic exchange and exchange-recirculation cycles
- Timer-controlled high-speed exchange modes for high occupancy conditions: birthdays, celebrations, etc.

Specifications
- Power entry: 22 to 26 VAC, 60 Hz
- Initial accuracy in relative humidity: ±4%, from 20% to 80% of relative humidity, 25 °C (77 °F)
- Setpoint range in relative humidity: 10 to 90%
- Setpoint resolution: 1%
- Relative humidity display range: 25% to 99%, “Low/Bas” displayed when RH below 25%
- Maximum load, high-speed control output: 10 Watts maximum (0.42 A @ 24 VAC)
- Maximum load, low-speed control output: 0.24 Watts maximum (0.01 A @ 24 VAC)
- Timer input: Compatible with Aldes Timer 611228
- Operating temperature range: 0 to 50 °C (32 to 122 °F)
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- Dimensions: Height 102.7 mm, Width 44.3 mm, Depth 28.5 mm (4.04” x 1.74” x 1.12”)

Precautions and warnings
- Do not spray any type of liquid nor apply a soaked cloth on the controller. Any infiltration of liquid in the device could alter its operation momentarily or permanently.
- Always service your air exchange system as prescribed in its operating manual to prevent any loss of performance.

⚠️ This electronic device integrates components and materials that must not be thrown into the garbage. Please recycle the device according to the rules in place in your area.
This multifunction controller with dehumidistat offers multiple modes enabling a personalized control of your air quality.

Note: your choice of operation mode becomes active 6 seconds after its selection.

1. **Manual mode: exchange**

   If you occasionally want to refresh the air in your house or a room for a certain period, you must select the manual air exchange mode. This air exchange is continuous. To select this mode, you must proceed as follows:

   1. Press the **MODE** key until the “exchange” symbol appears;

   2. Select manual operation by pressing the **AUTO/MAN** key. The **MAN** indicator will be displayed;

   3. Select the desired speed, “low” or “high”, using the **UP-DOWN** arrow keys.

2. **Manual mode: recirculation**

   You can select the “manual air recirculation” mode if the air quality in your space is adequate, or if the outdoor humidity too high. This activates a continuous air recirculation without exchange. To select this mode, you must proceed as follows:

   1. Press the **MODE** key until the “recirculation” symbol appears;

   2. Select manual operation by pressing the **AUTO/MAN** key. The **MAN** indicator will be displayed;

   3. Select the desired speed, “low” or “high”, using the **UP-DOWN** arrow keys.
3. **ECO-1 Mode**

   In winter time, if you wish to exchange the air in your space and you are concerned by letting in cold air, you can select the **ECO-1** mode. This mode activates a low-speed air exchange cycle for the first 20 minutes, followed by air recirculation for 40 minutes. This sequence repeats every 60 minutes. To select this mode, you must proceed as follows:

   1. Press the **MODE key** until the **ECO** symbol is outlined by the selection box;
   2. Select the **ECO-1** mode by pressing the **DOWN** arrow key. **ECO1** will be shown at the top of the display.

4. **ECO-2 Mode**

   In winter time, if you wish to exchange the air in your space and you are concerned by letting in cold air, you can select the **ECO-2** mode. This mode activates a low-speed air exchange cycle for the first 20 minutes, and the ventilation is stopped for the next 40 minutes. This sequence repeats every 60 minutes. To select this mode, you must proceed as follows:

   1. Press the **MODE key** until the **ECO** symbol is outlined by the selection box;
   2. Select the **ECO-2** mode by pressing the **DOWN** arrow key. **ECO2** will be shown at the top of the display.

5. **HIGH OCCUPANCY mode**

   The **HIGH OCCUPANCY** mode is a convenient way to refresh the air during gatherings. This mode executes a high-speed air exchange sequence for your selection of one, two, or four hours. Once the selected period ends, your air exchange system returns to the mode previously selected. To select this mode, you must proceed as follows:

   1. Press the **MODE key** until the “high occupancy” symbol is outlined by the selection box;
   2. Press the **UP-DOWN** arrow keys to select the period of air exchange desired; one, two, or four hours. The period selected is confirmed at the top of the display.

6. **System stopped: “OFF”**

   The mode halts the multifunction controller and the air exchange system. Note that the relative humidity measurement is deactivated. To select this mode, you must proceed as follows:

   1. Press the **MODE key** until the **OFF** indicator is shown at the top of the display.

7. **Operation with an Aldes ventilation timer**

   This 611242 multifunction controller is compatible with the Aldes 611228 timer unit (not included). When coupled together, the timer takes precedence over the 611242 mode of operation and forces high-speed air exchange during its countdown interval.

   1. When the 611228 timer is active, the “timer” symbol is shown on the display.
   2. Refer to your 611228 timer user guide for more information.
8. Dehumidistat mode

This mode automatically controls the level of relative humidity by activating the high-speed air exchange when the ambient humidity level exceeds the selected setpoint. To select this mode, you must proceed as follows:

1. Press the **MODE** key until the “exchange” symbol 🏡 appears;

2. Select automatic operation using the **AUTO/MAN** key. The **AUTO** indicator will be displayed;

3. Press the **UP-DOWN** arrow keys to select the relative humidity setpoint desired.

**Important Note:** to remove the excess relative humidity level in your living space, the outdoor relative humidity must be lower than the indoor ambient setpoint desired. Otherwise, your air exchange system will continuously exchange without reaching the desired humidity level.

**Backlight function**

The controller incorporates two convenient backlights for use in dark locations and at night. The display backlight turns on when pressing any button, and turns off for 6 seconds, following the last action. The keypad backlight operates simultaneously with the display backlight in its normal configuration. The keypad backlight can also function as a night light to generate a soft, permanent lighting.

To activate or deactivate the night light function, press the **MODE** key for 2 seconds.

**Air exchange system maintenance indicator**

The humidistat displays a blinking maintenance indicator every 3 months of operation. This indication signifies that the basic maintenance routine of your air exchange system is due. After the fourth 3-month period, this indicator turns on steadily (non-blinking), notifying that the annual maintenance routine of your system shall be performed. Please consult your air exchange system technical documentation to learn about the maintenance routine of its filters and components.

After each maintenance routine, hold the **AUTO/MAN** key for 2 seconds to reset the maintenance schedule. The indicator turns off and the maintenance timer is restarted for the next 3-month period.

**Operation recovery after a power failure**

When recovering from a power failure (air exchange system turned off or electricity blackout), the controller restarts in its last operation mode selected. If this mode implies a timer function (ECO and HIGH OCCUPANCY), the timer restarts at its initial value, as if the mode would be freshly selected.

**Cleaning**

Clean your humidistat using a lightly damp cloth and a soft cleaner.