

This guide and the user guide are available at [www.aldes.us](http://www.aldes.us). Call 800-255-7749 for assistance.

## Models

- 611242: Digital Multifunction Control
- 611242-FC: Digital Multifunction Control with Free Cooling setting

## 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 operation mode
- 4-button keypad 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

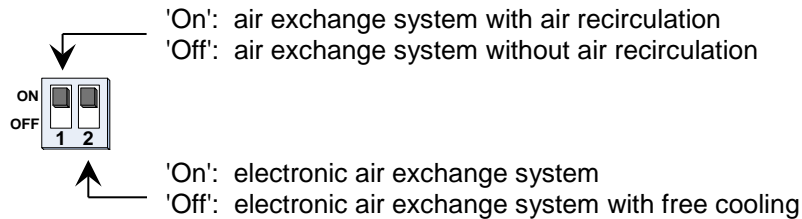
Power entry:	22 to 26 VAC, 60 Hz
Maximum load, high-speed control output:	10 Watts maximum (0.42 A @ 24 VAC)
Maximum load, low-speed control output:	0.24 Watts maximum (0.01 A @ 24 VAC)
Timer input:	Compatible with Aldes Timer 611228
Operating temperature range:	0 to 50 °C (32 to 122 °F)
Storage temperature 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")


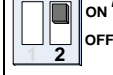


## Precautions and warnings

- ⚠ Always switch off the power supply to the air exchange system during the installation of the 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.
- First check if the control is compatible with your air exchange system before connecting and powering-up the unit. Non-compatibility could result in a dysfunction or 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 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 unit must be configured before its installation, using the 2 micro-selectors located behind the device.



 <p><b>Air exchange systems with recirculation</b></p> <p>7240, 7260, 7290, 7292, 7295 S/E/P1100(A)*, S/E/P700(A)*, 8230(5), 8260(5) H/E80-HR(G/X), H/E95, H/E130, H/E150, H/E190, H/E215, H/E240-Ri, H/E650(A)-Ri, H/E1100(A)-Ri, H/E1800(A)-Ri</p>	 <p><b>Electronic air exchange systems</b></p> <p>7240, 7250, 7260, 7261, 7290, 7292, 7295, H/E80-HF, H/E95, H/E110, H/E130, 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/E1800(A)-Ri/Fi(P)</p>
 <p><b>Air exchange systems without recirculation</b></p> <p>7250, 7261, S/E/P1100P/A**, S/E/P700P/A** 8230, 8260, H/E80-HF, H/E110, H/E650(A)-Fi(P), H/E1100(A)-Fi(P), H/E1800(A)-Fi(P)</p>	 <p><b>Electronic air exchange systems with free cooling (bypass damper)</b></p> <p>H/E80-HRG, H/E80-HRX</p>

\* 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 to mount the unit on the wall (not included);
- 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 (Figure 1);
3. Route the cable of your system to the junction box, keeping an extra length of 10 cm (4") for 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 2, connect each wire to the 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.

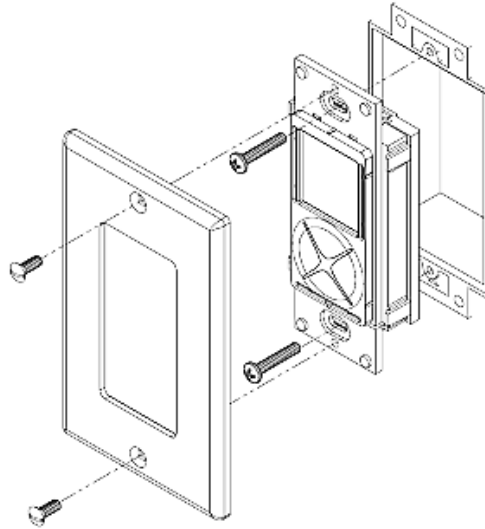


Figure 1

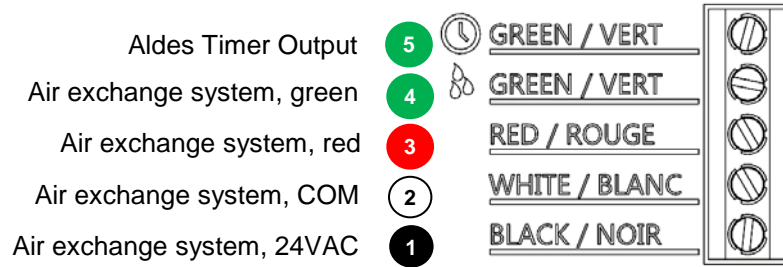


Figure 2

This guide and the installation guide are available at [www.aldes.us](http://www.aldes.us). Contact 800-244-7449 for assistance.

## Models

611242: Digital Multifunction Control

611242-FC: Digital Multifunction Control with Free Cooling setting

## 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, set point, and mode of operation
- Keypad with 4 buttons to select the mode of operation, the set point 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.



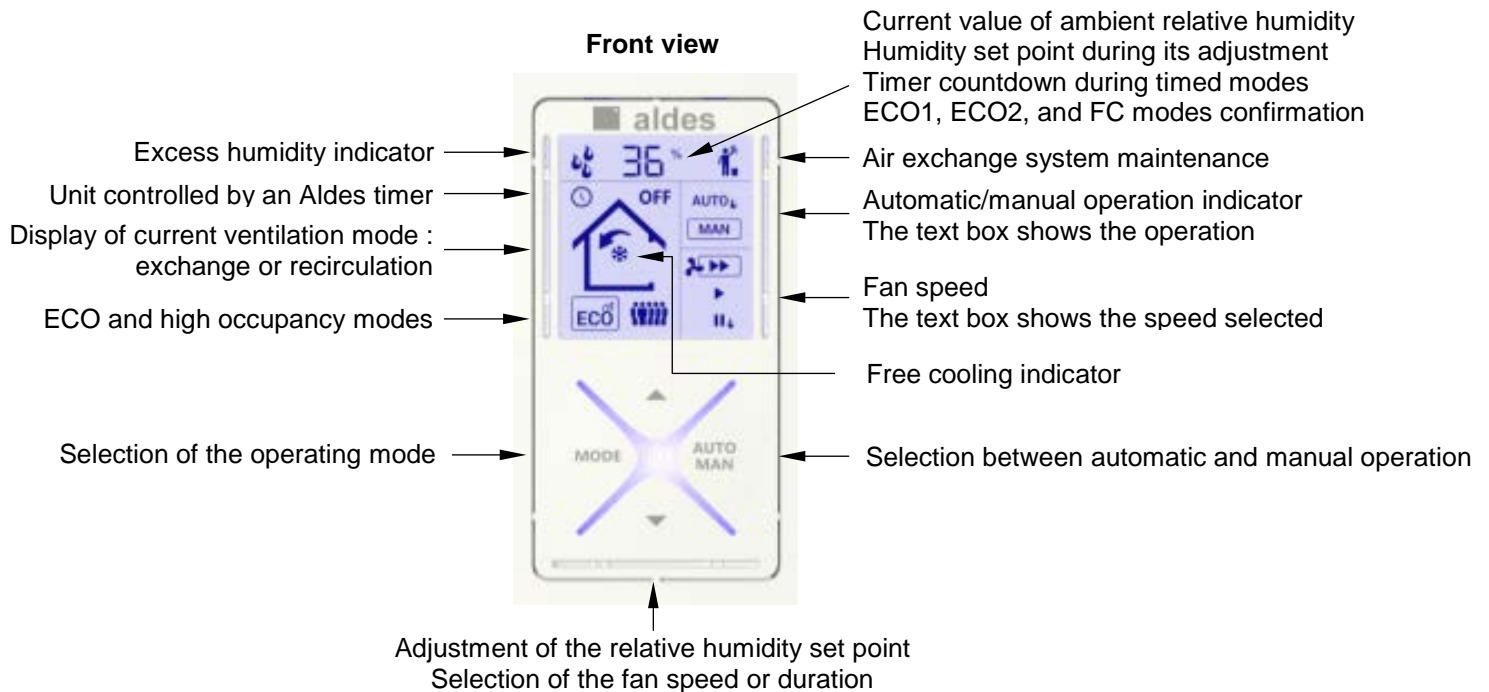
## Specifications

Initial accuracy in relative humidity:	±4%, from 20% to 80% of relative humidity, 25 °C (77 °F)
Operating temperature range:	0 to 50 °C (32 to 122 °F)

## 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.

## Operation and use



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



2. Press the **MODE** key until the “exchange” symbol appears;
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 is too high. This activates a continuous air recirculation without exchange. Proceed as follows to select this mode:

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



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

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. Proceed as follows to select this mode:

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. Proceed as follows to select this mode:

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 set point. 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 set point 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 set point desired. Otherwise, your air exchange system will continuously exchange without reaching the desired humidity level.

## 9. Free Cooling setting (model 611242-FC only)

This setting is to take advantage of the automatic Free Cooling mode available on certain Aldes air exchangers. If the indoor temperature exceeds 22°C and the outdoor temperature is cooler (13°C to 19°C), Free Cooling brings in the fresh air directly, without heat exchange. This lowers the temperature of the indoor air, while reducing the need for air conditioning.

1. To activate or deactivate the Free Cooling mode of HRV, press the **UP-DOWN** arrow keys for 2 seconds;
2. The alphanumeric characters indicate the transition to the active state « **On** » or inactive state « **Off** » of the Free Cooling mode on the HRV. When the Free Cooling mode is activated, the symbol  appears; **NOTE:** Even if the Free Cooling symbol  appears on the screen, it takes specific indoor and outdoor temperature conditions (described above) for the ventilator to actually operate in the Free Cooling mode.

## 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 control 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 Digital Multifunction Control using a lightly damp cloth and a soft cleaner.