This guide and the user guide are available at aldes-na.com. 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 discreetly 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 backlights 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

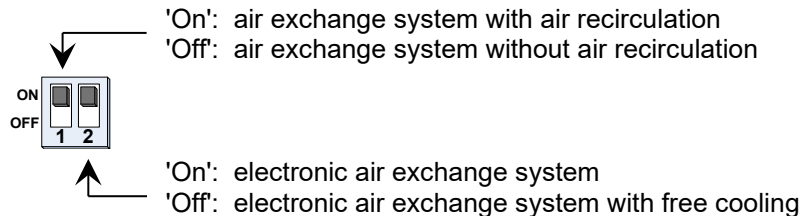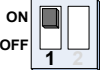|	
Power entry:	22 to 26 VAC, 60 Hz
Initial relative humidity accuracy range:	± 4%, from 20% to 80% RH at 25°C
Relative humidity setting range:	10% to 90%
Relative humidity display range:	25 % to 99 %, indicating LOW/BAS under 25 %
Maximum load, high-speed control output:	10 Watts maximum (0.42 A @ 24 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 °C to 50 °C (32 °F to 122 °F)
Storage temperature range:	-20 °C to 50 °C (-4 °F 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 multi-function 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 multi-function 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.
- The torque used on the PCB connector part should not be greater than 0.4 Nm.

Configuration

The unit 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
OFF
1 2

'On': electronic air exchange system
'Off': electronic air exchange system with free cooling

Air exchange systems with recirculation	Electronic air exchange systems
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, EK120-HR, EK120-HRX	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), EK120
Air exchange systems without recirculation	**Electronic air exchange systems with free cooling (bypass damper)**
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), EK120-HF, EK120-HFX	H/E80-HRG, H/E80-HRX

*   with recirculation   ** without recirculation

Installation

Material and equipment

- The multi-function 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 (14 to 18 ga wire);
- 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.
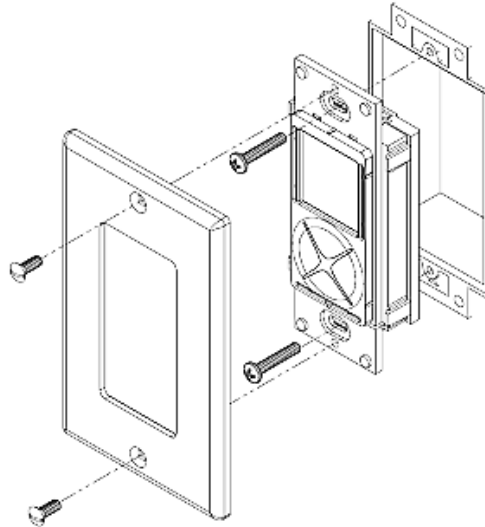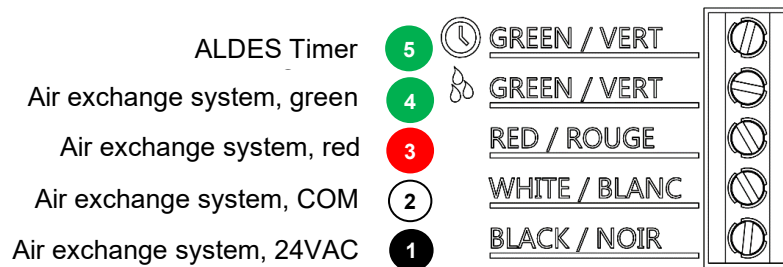
Figure 1

ALDES Timer **5** 🕐 GREEN / VERT

Air exchange system, green **4** 💧 GREEN / VERT

Air exchange system, red **3** RED / ROUGE

Air exchange system, COM **2** WHITE / BLANC

Air exchange system, 24VAC **1** BLACK / NOIR

Figure 2