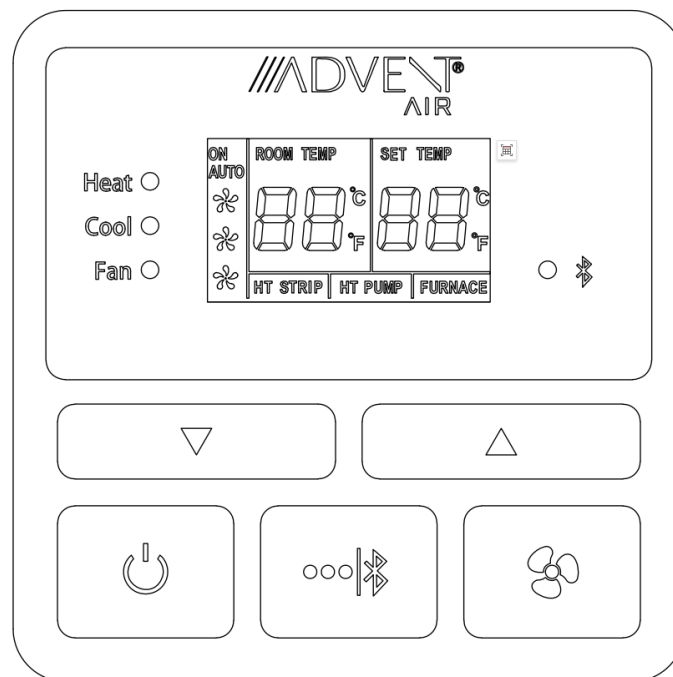


ADVENT[®] AIR

ACTH25 DIGITAL LCD THERMOSTAT MANUAL



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FEATURES

- DIGITAL COMMUNICATION
- LIQUID CRYSTAL DISPLAY WITH ROOM & SET TEMPERATURE
- BLUE LED ILLUMINATION
- INDIVIDUAL LED's FOR EACH MODE
- AUTO / ON FAN
- FAHRENHEIT & CELSIUS DISPLAY
- ROOF TOP FAN CAN BE USED TO PROVIDE ADDITIONAL AIR CIRCULATION DURING FURNACE OPERATION
- UNIVERSAL DESIGN IS COMPATIBLE WITH COOLING, HEAT PUMPS, HEAT STRIPS, & FURNACES (Heat Strips cannot be used on Heat Pump models)

OPERATION

- 1) Press & Hold  for 2 seconds to turn ON/OFF the system.
- 2) Press the  to select the desired mode. Each button press will cycle through the available modes.
- 3) Press the   to select the desired room temperature. Each button press will change the Set Temperature display by one digit.
- 4) Press the  to select the desired fan setting & speed. **Each button press will cycle through the available fan speeds.**
- 5) **After 15 seconds of inactivity, the backlight will turn off. The LCD will still display temperatures & fan settings.**
- 6) **To wake up the Thermostat, press any button and release. When the backlight is on, changes can be made to the settings.**

BLUETOOTH FUNCTION

- 1) Press and hold the  Bluetooth mode button for 2 seconds to turn ON/OFF Bluetooth.
- 2) **When the Bluetooth light is off, the Bluetooth function is turned off. When the Bluetooth light is flashing, the Bluetooth function is turned on, but the remote control is not connected. When the Bluetooth light stays on, the Bluetooth connection with the remote control is complete.**
- 3) **The thermostat and remote control will automatically pair when both devices have the Bluetooth function turned on. If the thermostat needs to re-pair with the remote control, perform the factory reset to reestablish connection.**

TEMPERATURE FORMAT

Press & hold   buttons together for 3 seconds to change from °F

to °C. Press and hold these buttons again for 3 seconds to change back to °F. The Room Temperature range is 32°F to 99°F. The Set Temperature range is 60°F to 86°F.

FAN OPERATION

- 1) Press the  to cycle through the available fan settings and speeds. Each press will change from Auto, On High (3 Fan Icons), On Medium (2 Fan Icons), & On Low (1 Fan Icon).
- 2) In the Auto setting, the Fan will cycle ON/OFF with the compressor or furnace. The Fan speed is decided by the temperature difference between Room & Set. If the temperature is greater than 4 degrees, the speed is High. If the difference is 3 - 4 degrees, the speed is Medium. If the difference is 2 degrees, the speed is Low.
- 3) In the ON setting, the Fan will run continuously at the selected speed regardless of compressor or furnace state.

COOLING OPERATION

In this mode, the compressor will cycle ON/OFF based on the Room/Set temperature. The Fan will run first and then the compressor will turn on in approximately 3 minutes. If the Fan is set to Auto, the Fan will stop 30 seconds after the compressor stops.

HEAT PUMP OPERATION

In this mode, the compressor will cycle ON/Off based on the Room/Set temperature. The Fan will run first and then the compressor will turn on in approximately 3 minutes. If the Fan is set to Auto, the Fan will stop 30 seconds after the compressor stops. **If the system has a furnace, the Thermostat will activate the furnace when the temperature is below 38°F and use the furnace as the main source for heat. The Fan will continue to run as set. Once the outdoor temperature rises above 45°F, the Thermostat will switch back to the Heat Pump and no longer use the furnace.**

HEAT STRIP OPERATION

In this mode, the Heat Strip will cycle ON/OFF based on the Room/Set temperature. The Fan has a 20 second delay to allow heat buildup. Once the Room temperature reaches the Set temperature, the Heat Strip will shut off and the Fan will run for 30 more seconds in the Auto setting to blow the residual heat from the ducts. If the Fan is set to On, it will continue to run at the set speed.

FURNACE OPERATION

In this mode, the Thermostat provides a 12VDC trigger to activate the RV Furnace. The Fan may or may not run based on the Fan settings. You can select Auto, On High/Medium/Low, or Off in Furnace Mode. If Auto is selected the Fan will run for 30 seconds after the Room temperature reaches the Set temperature. If ON is selected the Fan will run at the set speed regardless of Room temperature.

THERMOSTAT ERROR CODE TABLE

DISPLAY	CAUSE	SOLUTION
Er	Dip Switch position incorrect	Set Dip switch to correct position on back of Thermostat
E1	Room Temp Sensor Defect	Replace Thermostat
E2	Indoor Coil Temp Sensor Defect	Check wire connections and ensure sensor is installed. Replace Sensor
E3	Outdoor Coil Temp Sensor Defect	Check wire connections and ensure sensor is installed. Replace Sensor
E4	Outdoor Ambient Temp Sensor Defect	Check wire connections and ensure sensor is installed. Replace Sensor
E5	Communication Defect with T-Stat and Relay Kit	Check wire connections at T-Stat and relay kit
E6	Bluetooth upgrade is currently in progress.	The message will be cleared after the upgrade is completed.
Lo	DC voltage is below 10.5 Volts (+/- 0.3V)	Check wire connections and ensure DC voltage is above 11 volts (+/-0.3V)
dF	Indoor or Outdoor coil is frozen	System is deicing and cannot be used for 35 minutes and will restart automatically

FACTORY RESET

Press and hold    three buttons at the same time in the Off mode. The LCD display will flash ON/Off. Once the buttons are released the LCD will turn off and the system has been reset to factory settings.

IMPORTANT WARRANTY INFORMATION

DO NOT RETURN DEFECTIVE PRODUCT TO YOUR PLACE OF PURCHASE

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1. FCC Interference Statement – Part 15.105(a) Class A Digital Device or 15.105(b) Class B Digital Device

For all Class B Digital Devices, a statement like the following is needed:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

2. FCC Part 15 Clause 15.21 [Do not Modify warning]:

"Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment".

3. FCC Part 15.19(a [interference compliance statement], unless the following statement is already provided on the device label: -

"This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation."

4. In order to comply with FCC RF Exposure requirements, this device must be installed to provide at least 20 cm separation from the human body at all times.

Radiation Exposure Statement:

1. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.
2. The device has been evaluated to meet general RF exposure requirement.