



Indicator lights

- Red light - critical alarm (system off)
- Yellow light - non-critical alarm (system running)
- Green light - compressor on
- Green flashing - compressor waiting on timer to start/stop

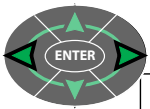
To move through controller menus:

- Left Arrow and Right Arrow**
Use to move between **Menus**
- Up Arrow and Down Arrow**
Scroll through **Menu Parameters**

To return to Main Menu: **BACK** Press BACK to return to the previous view.

To change settings: **ENTER** Press and hold ENTER for 3 seconds, when display begins blinking changes can be made

To save setting changes: **ENTER** Press and hold ENTER for 3 seconds to save change



Menus:

Menu Parameters:

Non-adjustable Variables
(view only)

- ROOM TEMP
- COIL TEMP
- SYSTEM MODE
- SUPERHEAT
- SUCTION PRESSURE
- SUCTION TEMP
- SATURATION TEMP
- VALVE % OPEN
- AUX TEMP
- COMPRESSOR RELAY
- DEFROST RELAY
- FAN RELAY
- DIG 1 STATUS
- DIG 2 STATUS
- DIG 3 STATUS
- IP OCTET 1
- IP OCTET 2
- IP OCTET 3
- IP OCTET 4
- SUBNET MASK OCTET 1
- SUBNET MASK OCTET 2
- SUBNET MASK OCTET 3
- SUBNET MASK OCTET 4
- FIRMWARE VERSION

- Variables for DIG IN Mode
- DIG IN MODE = DISABLED
 - DIG IN MODE = 2ND (ROOM) TEMP
 - DIG IN MODE = DOOR SWITCH
 - DIG IN MODE = EXT ALARM
 - DIG IN MODE = SYSTEM OFF
 - DIG IN MODE = LIGHT SWITCH
 - DIG IN MODE = CAMERA SWITCH

Alarms
(view only)

- NO ALARM
- PRESSURE SENSOR
- SUCTION TEMP SENSOR
- AIR TEMP SENSOR
- COIL TEMP SENSOR
- AUX TEMP SENSOR
- HIGH SUPERHEAT
- LOW SUPERHEAT
- HIGH AIR TEMP
- LOW AIR TEMP
- EXCESS DEFROST
- DEFR TERM ON TIME
- DOOR SWITCH
- COMMUNICATION ERROR
- EXT ALARM

Setpoints*

- ROOM TEMP
- DEFROST TYPE**
- VALVE TYPE**
- MOTOR TYPE
- MOTOR STEP RATE
- MAX VALVE STEPS
- SUPERHEAT
- MAX OPERATING PRES
- REFRIGERANT
- AUX TEMP MODE
- AUX RELAY MODE
- MIN COMP RUN TIME
- MIN COMP OFF TIME
- REFRIG FAN MODE
- DEFROST MODE
- DEFROSTS / DAY
- 1ST DEFROST DELAY
- DEFROST FAN STATE
- DEFROST TERM TEMP
- DEFROST PARAMETER
- DRAIN TIME
- COMP RUN TIME
- ELEC DEFROST MODE
- FAN DELAY TEMP
- MAX FAN DELAY TIME
- PUMP DOWN TIME
- MULTI AIR TEMP CTRL**
- MULTI EVAP COOL**
- MULTI EVAP DEFROST**
- MULTI EVAP SENSOR
- HIGH TEMP ALARM OFFSET
- HIGH TEMP ALARM DELAY
- LOW TEMP ALARM OFFSET
- LOW TEMP ALARM DELAY
- DOOR ALARM DELAY
- DIG IN 1 MODE
- DIG IN 1 STATE
- DIG IN 2 MODE
- DIG IN 2 STATE
- DIG IN 3 MODE
- DIG IN 3 STATE
- 2ND ROOM TEMP
- SUCT PRES OFFSET
- SUCT TEMP OFFSET
- AIR TEMP OFFSET
- COIL TEMP OFFSET
- AUX TEMP OFFSET
- TEMP UNITS
- AIR TEMP DIFF
- EXTREME TEMP DIFF

Manual

- MANUAL CONTROL
- MANUAL VALVE
- CLEAR ALARMS
- MANUAL COMPRESSOR RELAY
- MANUAL DEFROST RELAY
- MANUAL FAN RELAY
- DHCP
- FACTORY RESET

* The Setpoint parameters shown in **BOLD** (Valve Type, Room Temp Setpoint and Defrost Mode) need to be set by the user prior to start up. The other Setpoint Parameters can also be adjusted, however the factory setpoints are generally correct for most applications.

The Setpoint parameters shown in *ITALIC* are only displayed when an EEV is used.

The Setpoint parameters shown in **BOLD ITALIC** are displayed for bonded controllers only.



Mechanical Valve TEV - 3 steps	Standard EEV - 4 steps	Custom EEV - 7 steps
Room Temp	Room Temp	Room Temp
Defrost Type	Defrost Type	Defrost Type
Valve Type	Valve Type	Valve Type
	Refrigerant	Refrigerant
		Motor Type (Unipolar/Bipolar)
		Motor Step Rate
		Max Valve Steps

QuickStart with a TEV

- Power up the newly installed controller.
- The **ROOM TEMP** display will show a blinking number. Use the left or right arrows to move between digits. Use the up or down arrows to adjust the blinking digit higher or lower.
- Once new setpoint is displayed, press and hold **ENTER** for 3 seconds.
- Now, the **DEFROST TYPE** is displayed. Wait until **ELEC** (Electric Defrost) is displayed. If a defrost option other than **ELEC** is needed, use the up and down arrows to scroll through list and select **AIR, HOT GAS, COMP ON, or HOT GAS COMP ON.**
- Once desired defrost option is shown, press and hold **ENTER** key for 3 seconds.
- “**VALVE TYPE**” is displayed. **MECHANICAL** will appear.
- Press and hold **ENTER** for 3 seconds.
- The controller will now begin controlling the system

QuickStart with a Pre-programmed EEV

- Power up the newly installed controller.
- The **ROOM TEMP** display will show a blinking number. Use the left or right arrows to move between digits. Use the up or down arrows to adjust the blinking digit higher or lower.
- Once new setpoint is displayed, press and hold **ENTER** for 3 seconds.
- Now, the **DEFROST TYPE** is displayed. Wait until **ELEC** (Electric Defrost) is displayed. If a defrost option other than **ELEC** is needed, use the up and down arrows to scroll through list and select **AIR, HOT GAS, COMP ON, or HOT GAS COMP ON.**
- Once desired defrost option is shown, press and hold **ENTER** key for 3 seconds.
- “**VALVE TYPE**” is displayed. **MECHANICAL** will appear. Use the up and down arrows to scroll through the pre-programmed EEV options.
- Once the desired EEV is displayed, press and hold **ENTER** for 3 seconds.
- “**REFRIGERANT**” is displayed. 404A will appear. Use the up and down arrows to view other options.
- Once the desired refrigerant is displayed, press and hold **ENTER** for 3 seconds.
- The controller will now begin controlling the system.

QuickStart with a Custom EEV

- Power up the newly installed controller.
- The **ROOM TEMP** display will show a blinking number. Use the left or right arrows to move between digits. Use the up or down arrows to adjust the blinking digit higher or lower.
- Once new setpoint is displayed, press and hold **ENTER** for 3 seconds.
- Now, the **DEFROST TYPE** is displayed. Wait until **ELEC** (Electric Defrost) is displayed. If a defrost option other than **ELEC** is needed, use the up and down arrows to scroll through list and select **AIR, HOT GAS, COMP ON, or HOT GAS COMP ON.**
- Once desired defrost option is shown, press and hold **ENTER** key for 3 seconds.
- “**VALVE TYPE**” is displayed. **MECHANICAL** will appear. Use the up and down arrows to scroll to **CUSTOM.**
- Press and hold **ENTER** for 3 seconds.
- “**REFRIGERANT**” is displayed. 404A will appear. Use the up and down arrows to view other options.
- Once the desired refrigerant is displayed, press and hold **ENTER** for 3 seconds.
- “**MOTOR TYPE**” is displayed. Wait until **BIPOLAR** is displayed. Use the up and down arrows to select either **BIPOLAR** or **UNIPOLAR.**
- Press and hold **ENTER** for 3 seconds
- “**MOTOR STEP RATE**” is displayed. Wait until **200** is displayed. Use the left and right arrows to move between the digits. Use the up and down arrows to adjust the blinking digit higher or lower.
- Press and hold **ENTER** for 3 seconds.
- “**MAX VALVE STEPS**” is displayed. Wait until **1300** is displayed. Use the left and right arrows to move between digits. Use the up and down arrows to adjust the blinking digit higher or lower.
- Press and hold **ENTER** for 3 seconds.
- The controller will now begin controlling the system.

NOTE: Pass codes for your Centinel™ controller can be found in the Centinel™ Installation, Operation, and Maintenance Manual.