AIRSYS Free Cooling Box (FCB) Software Upgrade Guide

Introduction:

- All AIRSYS FCBs can gain additional functions and improvements by upgrading the control software.

- Software upgrade requires a Smart Key loaded with the latest software. The Smart Key is available from AIRSYS to service contractors and customers to perform field software upgrades and can be loaned for up to 90 days without charge. For more details, please contact ASNsupport@air-sys.com.

- Software upgrade resets all parameters to factory default.

- Follow the instructions carefully. If you encounter any difficulties, please contact AIRSYS Support at ASNsupport@air-sys.com or (855) 874-5380

Figure 1: Carel Smart Key

Step 1: Load Software

a. Disconnect J1 (controller power). See Figure 2 for connector locations.

b. Insert the Smart Key cable into J5.

c. Reconnect J1.

d. Wait until the arrow shaped indicator light on the Smart Key is steady green (see Figure 3).

e. Press the "Start" button on the Smart Key. The arrow indicator light will flash with increasing frequency while the software is loading. A "chirping" sound indicates the software has finished loading.

f. Remove the Smart Key.

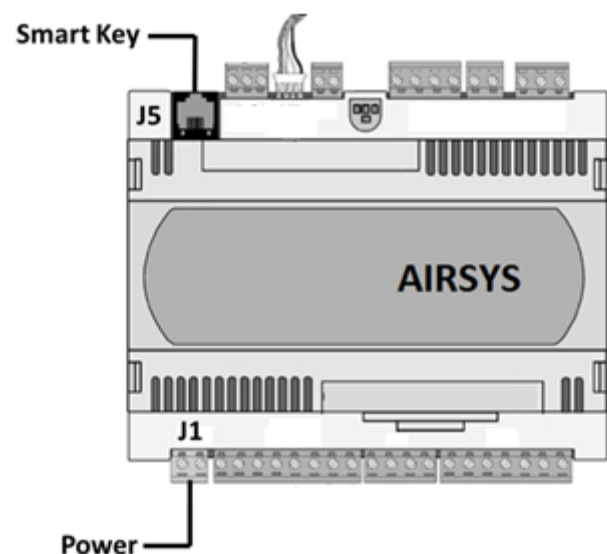g. Reset the controller by disconnecting and reconnecting J1 power.

Figure 2: Controller Board Connector Locations

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h. The FCB Controller screen will display $E\,0$. After ~15 seconds, the display will change to 0.0.

i. Use the **Up** button to find the $5\,E\,t$ menu. Press **Sel**, the screen should display $L\,0\,1$.

j. Press **Up** to reach $L\,0\,5$ and press **Sel,** the screen should display $F\,C.b$.

k. Use the **Up** button to get to $P\,5\,3$ and press **Sel.** The screen should display 0.

l. Press **Up** button to reach 3 and press **Sel**.

m. Press **Sel** to reach $d\,E\,F$ and press **Sel** again, the display should return to Indoor Temp.

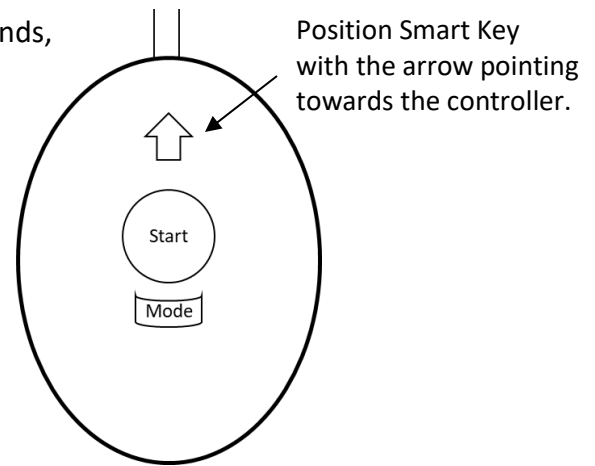Position Smart Key with the arrow pointing towards the controller.

Figure 3: Insert the Smart Key

Step 2 (optional): Clear Alarm History

a. From the indoor temp display, Press the **Up** button to find the $5\,E\,t$ menu.

b. Press **Sel**, the screen should display $L\,0\,1$.

c. Press **Up** to reach $L\,0\,6$ and press **Sel,** the screen should display $H\,0\,1$.

d. Press **Up** to reach $H\,0\,2$ and press **Sel,** the screen should display $n\,0$.

e. Press **Up** once to change $n\,0$ to $Y\,E\,5$. ($Y\,E\,5$ will display briefly, the display will then return to $n\,0$.

f. At this point the alarm history has been erased. Press the **Up** and **Down** buttons together to return to the home screen.

Step 3: Turn system back to ON (Automatic mode)

a. Press **Up** and **Down** together to get back to the Indoor Temperature.

b. Press **Down** to until $0\,F\,F$ is displayed.

c. Hold **Sel** for 3 seconds. Both up and down buttons should be lit and active alarms will be displayed (if there are any).

d. Press **Up** and **Down** together to get back to the Indoor Temperature.