

Title:

I-Controller 2.0 Compressor Verification In Low Ambient Conditions
(6-70 Ton Units)

Overview

This guide outlines the process of verifying compressor functionality on an i-Controller 2.0 in low ambient conditions when you cannot verify all compressor operation through test modes.

IMPORTANT: This process cannot be used on units with tandem compressors

Verification Process:

The following are the steps to take to force the condenser and compressor outputs on the RSMD controller.

How Access The Force Mode Screens On The RSMD

1. Starting at the main screen that shows up at power up that shows RSMD-CES, press Enter twice on the keypad and the screen will show SOFTWARE on the top line.
2. Press and hold down the UP button until the top line shows CONFIG.
3. Press the MENU button once. The screen will show DIAGNSTC on the top line.
4. Press the ENTER button until the screen shows FORCE MODE OFF.
NOTE: there are no back buttons so if you pass FORCE MODE OFF, you'll need to cycle back through until you reach the screen you require.
5. Press the UP button once and the screen will now show FORCE MODE ON.

How To Use Force Mode On The RSMD

IMPORTANT: Make sure units supply fan is on before proceeding with Forced Mode.

Turning On All Condenser Fan Points: If 2 RSMD modules complete the process below on both.

1. Starting at FORCE MODE ON screen press the ENTER button until the screen shows RLY 3 OFF.
2. Press UP button once. The screen will now show RLY 3 ON.
3. Press the ENTER button until the screen shows RLY 4 OFF.
4. Press UP button once. The screen will now show RLY 4 ON.
5. Press the ENTER button until the screen shows AOUT-1 V 0.0.
6. Press the UP button and change the value to 10.0. This will put the condenser fan at full speed.
7. Press the ENTER button until the screen shows AOUT-2 V 0.0.
8. Press the UP button and change the value to 10.0. This will put the condenser fan at full speed.

IMPORTANT: Ensure all Condenser Fans are running before turning compressors on.

Compressor Verification: If 2 RSMD modules complete the process below on both.

1. Press the ENTER button until the screen show RLY 1 OFF.
2. Press the UP button once. The screen will now show RLY 1 ON.
3. Press the ENTER button until the screen show RLY 1 ON.
4. Press the DOWN button once. The screen will now show RLY 1 OFF.
5. Press the ENTER button until the screen show RLY 2 OFF.
6. Press the UP button once. The screen will now show RLY 2 ON.
7. Press the ENTER button until the screen show RLY 2 ON.
8. Press the DOWN button once. The screen will now show RLY 2 OFF.

Cancelling Force Mode

1. Individual outputs set to OFF.
2. Cycle power to the RSMD.