

**INSTALLATION INSTRUCTIONS FOR I/O MODULE KIT (86M39)  
USED ON ROOFTOP UNITS WITH IMC VERSIONS M1-7 OR HIGHER**

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**Shipping and Packing List**

**Package 1 of 1 contains:**

- 1- Terminal block assembly
- 1- I/O (3)A133 (GP1-1) board
- 1- Wiring diagram sticker
- 2- 6-32 X 1" MS Hex head screws (in bag assy.)

**Application**

The I/O Module Kit is used on rooftop units containing an IMC version M1-7 or higher. The kit is used to control field-installed options.

**Installation (overleaf)**



## Installation

1. Disconnect all power to unit and open control panel.
2. Make field wiring connections to terminal block assembly as shown in wiring diagram provided with optional component. Also refer to figure 1.

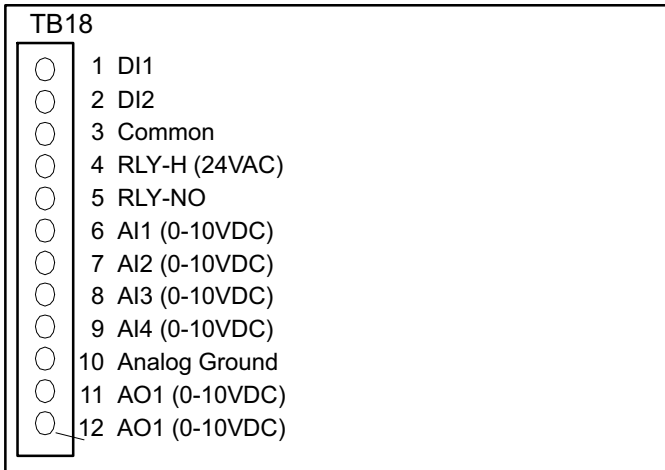


Figure 1. TB18 Connections

## ⚠ WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Installation and service must be performed by a qualified installer or service agency.

## ⚠ IMPORTANT

When wiring 0-10VDC sensors, two separate twisted pair cables with shield are required. One cable is used for the 24VAC power and one cable is used for the 0-10VDC output. The shield drain wires must be connected to the common at the unit field wiring terminal block only. The shield drain wires must not be connected to common at the sensor.

3. Confirm that DIP switch on I/O board is set as shown in figure 2.

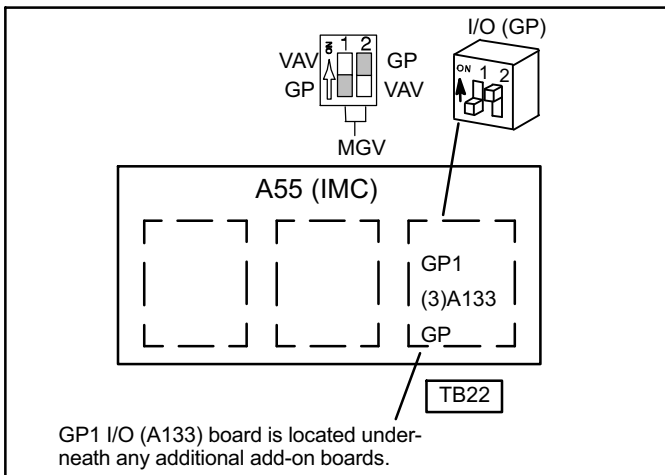


Figure 2. GP1 Board Position on IMC

4. Plug P194 connector on GP1 board into J203 on terminal block assembly. See figure 3.
5. Any add-on boards in the right position on the IMC (A55) board must be removed before installing the GP1 board. Remove and retain add-on boards if present.

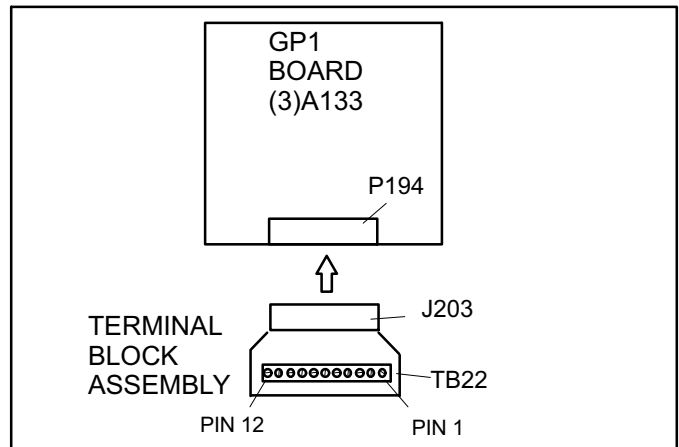


Figure 3. Connect GP1 Board to Terminal Block

## ⚠ IMPORTANT

Circuit boards are extremely sensitive to static electricity. Care must be taken in handling. Hold board by the edges and avoid touching any components. Be extremely careful when removing black plastic cover over gold connector pins. **DO NOT** touch pins.

6. Carefully remove GP1 board from protective packaging. Properly position board over the molex connector at the far top right of the main control board. See figure 2.
7. Pins must be properly aligned with receptacle. Snap board in place. Secure with screws provided in kit.

**IMPORTANT - Misaligned pins can damage the IMC and/or GP1 board.**

8. Position retained add-on board(s) over the GP1 board molex connector and snap into place. Secure using retained screws.

**IMPORTANT - Misaligned pins can damage the add-on board, IMC, and/or GP1 board.**

9. Locate the unit wiring diagram sections on the compressor access panel. Affix the wiring diagram, provided in kit, in alpha-numeric order near the other diagrams.
10. Restore power to unit and refer to IMC manual provided with unit for start-up.
11. Set ECTO parameters to application specifications. See Block 9 parameters in the IMC manual.