

Unit Conditioner Controller with Six Stages – Electronic Output

Verify power to controller

This section presents start-up procedures for the Unit Conditioner Controller with Six Stages – Electronic Output. Refer to Figure 1.

NOTE: Update each controller at the field panel immediately after you complete the controller start-up procedures, and have made all other changes to the controller's point database (including balancing, tuning, etc.).

Verify that the Unit Conditioner Controller with Six Stages – Electronic Output is powered up. Check that the BST LED on the controller is flashing. If the BST LED does not flash on/off once per second, then refer to the *System 600 Maintenance and Troubleshooting Manual* (125-1855) for troubleshooting information.

NOTE: The Controller Interface Software (CIS) used with the Unit Conditioner Controller with Six Stages – Electronic Output firmware revision FW10 must be Rev. 2.0 or greater. Voyager's point database may also be used for start-up.

Verify that the point APPLICATION (number 2) is set to 2090 (slave mode) for Rev. FW10 or higher.

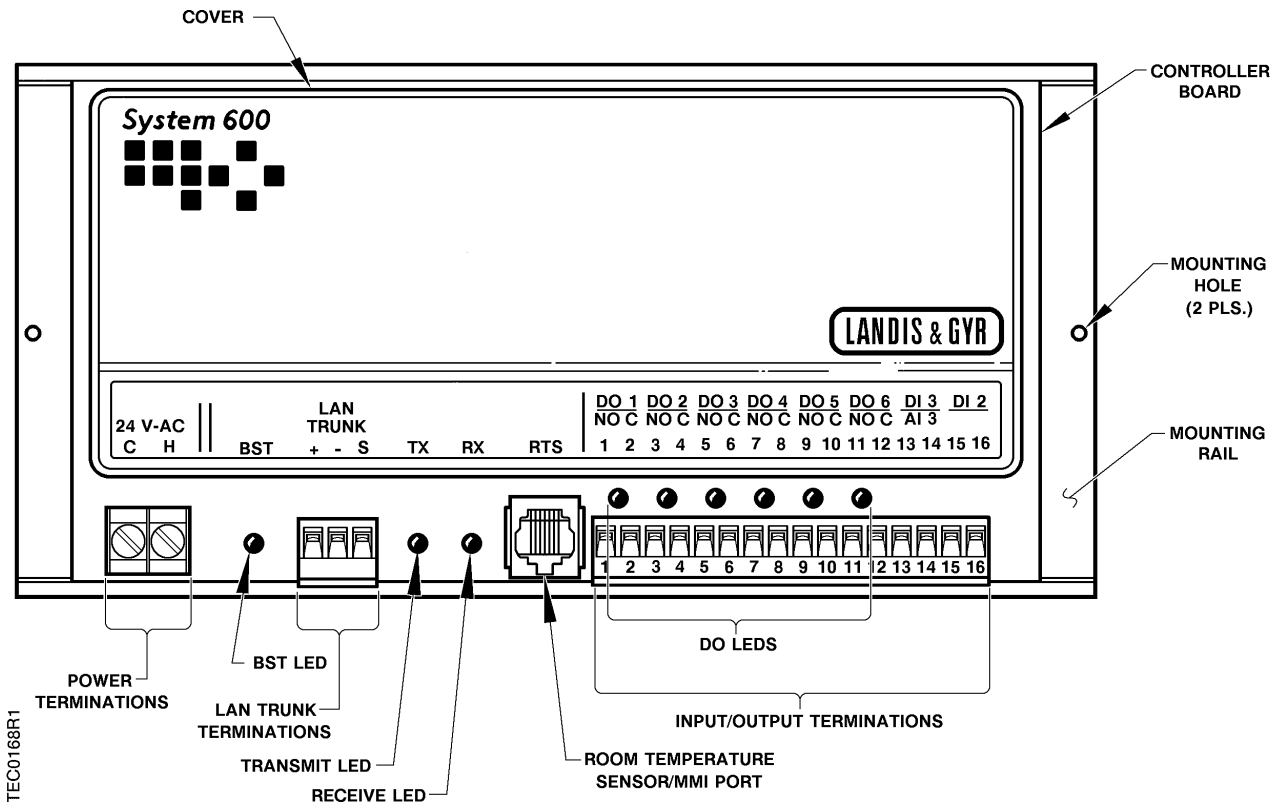


Figure 1. Unit Conditioner Controller with Six Stages – Electronic Output.

Set application

NOTE: If you are going to enter an LCTLR point at the field panel, then keep track of the application, override time, and controller address you enter at the portable operator's terminal. You will be required to enter these values again at the field panel.

Set the point APPLICATION (number 2) to the appropriate Unit Conditioner Controller application. Refer to Table 54 for application names and numbers.

Table 1. Unit Conditioner Controller with Six Stages – Electronic Output Applications.

Application	Revision FW10 or higher
Fan Coil Unit with Six Stages of Electric Heat	2323
Fan Coil Unit with Six Stages of Cooling	2324
Slave Mode	2090

After you set the application, the controller will go through a shut-down/load sequence as it switches from slave mode to the application selected. After the application loads and the OVERVIEW report appears, continue with the following procedures.

Set room temperature set points

Application 2323 only: Follow these steps to set the room temperature set points:

1. Display the SETPOINTS report.
2. If the room temperature sensor has a set point dial, and if the point RM STPT DIAL (number 13) is to be used by the controller, then set the point STPT DIAL (number 14) to YES; otherwise, set STPT DIAL to NO.

NOTE: If STPT DIAL is set to YES, then the point DAY HTG STPT (number 7) will not be used. The value of RM STPT DIAL will be used.

3. If there is no set point dial on the room temperature sensor, then verify that STPT DIAL is set to NO.

Set the following points to the appropriate values:

- DAY HTG STPT (number 7)
 - NGT HTG STPT (number 9)
4. If the room temperature sensor has a set point dial and the set point dial is to be used, then set the points RM STPT MIN (number 11) and RM STPT MAX (number 12) for the minimum and the maximum allowable room temperature set point values, respectively. Valid values range from 55° to 95°F (13° to 35°C). Common values for these points are 65°F (18°C) for RM STPT MIN and 80°F (27°C) for RM STPT MAX.

Set control set point parameters

Application 2324 only: Set the following points as appropriate:

- OA HIGH (number 31)
- OA LOW (number 32)
- STPT HIGH (number 33)
- STPT LOW (number 34)

These points are used in a table statement to set the point CTL STPT (number 92) based on the point OA TEMP (number 30) (commanded by the field panel). When OA TEMP is equal to or greater than OA HIGH, CTL STPT will be set to STPT LOW. When OA TEMP is equal to or less than OA LOW, CTL STPT will be set to STPT HIGH. As OA TEMP goes from OA LOW to OA HIGH, CTL STPT goes from STPT HIGH to STPT LOW.

Set override time

Application 2323 only: Follow these steps to set the override time:

1. Display the STARTUP report.
2. If using night override, then set the point OVRD TIME (number 20) to the number of whole hours that an override should last. If set at zero (the default), then night override is disabled.

Set stages of electric heat

Application 2323 only: Check the hardware to verify the number of stages (1 to 6) of electric heat used. Set the point HTG STG CNT (number 88) to this value.

Set stages of cooling

Application 2324 only: Check the hardware to verify the number of stages (1 or 6) of cooling used. Set the point CLG STG CNT (number 75) to this value.

Enable wall switch

Application 2323 only: If a wall switch is used for day/night control, then enable it by setting the point WALL SWITCH (number 18) to YES.

Set controller address

Set the controller address by setting the point CTLR ADDRESS (number 1) to the appropriate number.

NOTE: Update each controller at the field panel immediately after you complete the controller start-up procedures, and have made all other changes to the controller's point database (including balancing, tuning, etc.).

Unit Conditioner Controller with Six Stages – Electronic Output start-up is complete.