



ES Service Information

File In/With:	N/A	SI0127
		New 8-05
Equipment Affected:	UPG Millennium Packaged Units w/Simplicity Elite Control	
Erratic Operation and Correct Setup Guide		

We have had several reports of erratic operation on the Simplicity Elite control used on VAV Millennium packaged units. Most of these problems are due to confusion regarding several setpoints resulting in improper setup of the control. Others are a result of some mis-understanding of the sequence of operation. The following information will be helpful as a setup guide for some applications as well as a service tips guide for servicing the equipment:

If a space sensor is not used and the indoor fan will not operate when the Elite control is put into an occupied mode, place a 10,000 ohm resistor across terminals ST and GND at the top, left portion of the control. Use Simplicity PC software to set Space Temp Alarm Temp and Space Temp Alarm Time to 0 in the Setup Options tab.

On applications where an external Occupied/Unoccupied command is given to the board, either by a digital input to the OCC terminal or by a Modbus RTU or Bacnet/ModLINC network command, the following setpoints are critical:

- INTELLI-START must be OFF;
- OCCUPIED INPUT ENABLE must be ON;
- REMOTE CONTROL must be OFF.

(In addition, on Rev. A Elite boards VAV STAND ALONE must be OFF. Rev. A boards can be identified by looking at the highest parameter available on the display. If the highest parameter is less than 87, it is Rev. A). When servicing a unit, keep in mind that if Morning Warm-up is turned ON, the control may go through a 1 hour Morning Warm-up period on power up before the compressors are energized. To save time while on a service call, turn the Morning Warm-up feature OFF. When service is completed, turn the feature back ON.

If the fan is running continuously and will not shut down even when the control is put into an unoccupied mode, check the phasing of the control transformers by measuring voltage across the R female push-on terminal on the top left portion of the control and the 24 VAC Class 1 terminal on the bottom right portion of the control. This should measure less than 5 vac. If it is higher, reverse the wires on the secondary side of one of the control voltage transformers.

There also seems to be some confusion on the setup tools needed for the Simplicity Elite control. The keypad on the latest revision of the control has 88 parameters. Some of those are setup parameters (Duct Static Setpoint, e.g.) and others are data parameters (Supply Air Temp, e.g.). The keypad does not provide access to all programmable parameters. The most comprehensive tool for setup is the free Simplicity PC software available on our websites. The following items are needed to use this software and can be ordered through a UPG distributor or branch:

1. FREEnet USB adapter –031-01967-000. This comes with a disc that includes the Simplicity PC software as well as the drivers required for the adapter.
2. Cable 025-38682-000

Simplicity PC will be needed to properly set up on the units, even on networked applications using Modbus RTU or Bacnet/ModLINC.