

### APPLICATION

The W8600E Solid State Performance Indicator is an option available for 2-cell F50E and 1- or 2-cell F52E Electronic Air Cleaners. It requires a factory-installed solid state printed circuit board in the power supply box of the air cleaner and a wall-mounted W8600E Indicator Panel. The W8600E Indicator Panel must be ordered as an option when the air cleaner is ordered. Any F50E can be upgraded to solid state performance indication by replacing the power box assembly with one containing the performance indicator circuit board.

Some W8600E models include an accessory "Trol-A-Temp by Honeywell" faceplate to be used when the W8600 is installed next to a Trol-A-Temp by Honeywell thermostat.

The W8600E can be installed and wired following the instructions provided with the air cleaner (if the W8600E is installed at the same time as the air cleaner) or it can be installed and wired following the instructions provided in this instruction sheet.

The wall panel of the W8600E has three light emitting diodes (LEDs) to indicate: ON, WASH and CHECK. During normal air cleaning operation, the ON LED is lit. As dirt accumulates on the air cleaner's cells, it causes a decrease in ionizer current that is sensed by the circuit board. With heavy dirt accumulations, the WASH LED lights to alert the homeowner that cell and prefilter washing is overdue. The prefilter(s) should be cleaned when the cells are cleaned, as the WASH LED will not be activated by clogged prefilter(s).

Excessive dirt loading (beyond that required to activate the WASH LED), partial shorting of the collector, continuous ionizer or collector arcing, power supply failure, excessive current, or any condition causing a major reduction in high voltage causes the CHECK LED to come on to alert the homeowner to check system operation or call a service technician if necessary.

### INSTALLATION

#### WHEN INSTALLING THIS PRODUCT...

1. Read the instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
3. Installer must be a trained, experienced service technician.
4. After installation is complete, check out product operation as provided in these instructions.

#### LOCATION

The styling of the W8600E is designed to blend with the T8600 family of Microelectronic Chronotherm Thermostats, or may be installed independently. A special mounting template is included for mounting next to the T8600. The W8600E indicator can, however, be mounted at any other convenient location in the living area, or it may be mounted in the furnace room (see Fig. 5). It shares no common electrical connections with the thermostat.

Make certain the location you choose is convenient for the homeowner to observe the LEDs of the device.

#### MOUNTING

The following mounting instructions assume that the W8600E Indicator will be mounted next to a T8600 Thermostat. If you are installing the indicator at another location,

modify the procedure to fit your installation.

- Remove the cover from the W8600E. Use care when removing and replacing the cover so as not to damage the LEDs in the W8600E.
- Install the Trol-A-Temp by Honeywell faceplate, if desired.
  - Push with a pencil eraser or similar tool through the center hole in the back of the cover to pop off the factory-installed faceplate. If the faceplate won't release, pry gently with a flat-blade screwdriver or similar tool. Use care to avoid damaging the plastic cover.
  - Peel the backing from the new faceplate.
  - Starting in one corner, position the new faceplate on the front of the cover. Press firmly in place.
- Hold the mounting template (included in the W8600E bag assembly) next to the T8600 as shown in Fig. 1.
- Hold the base for the W8600E next to the template and mark holes for screw anchors and for running 4-wire thermostat cable from the connector on the air cleaner's power box or wiring compartment to the W8600E Indicator.
- Remove the W8600E base and drill the holes. Install anchors and screws so that the base is mounted firmly on the wall.

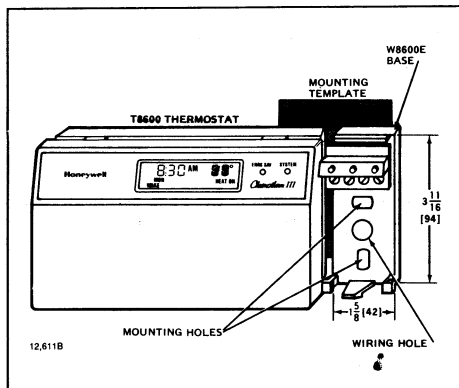


Fig. 1—Mounting the W8600E Indicator next to the T8600 Thermostat, dimensions in in. [mm].

#### WIRING

#### IMPORTANT

Run the wires separate from any other current-carrying wires, and away from the cell(s) to prevent interference with operation of unit.

For F50E 2-Cell Model:

- Run 4-wire thermostat cable (up to 18 gauge) from the W8600E base to the terminal strip on the power box of the F50E.
- Strip 1/4 in. insulation from the ends of the wires and connect them, matching numbers (1 to 1, 2 to 2, 3 to 3, 4 to 4) as shown in Fig. 2.
- Install the W8600E cover and visually check the installation's appearance as shown in Fig. 5.

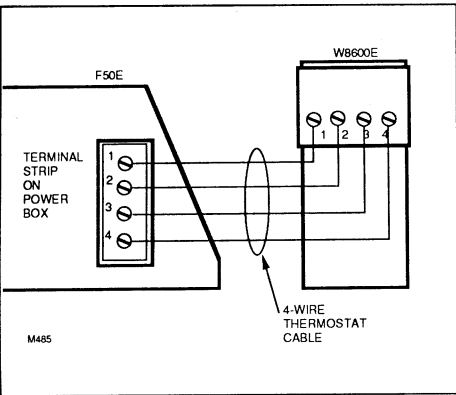


Fig. 2—Wiring the W8600E to the F50E Electronic Air Cleaner's power box terminals.

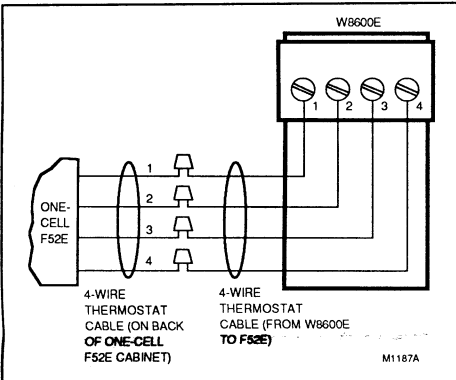


Fig. 3—Wiring the W8600E to the F52E Electronic Air Cleaner's power box terminal strip (one-cell model).

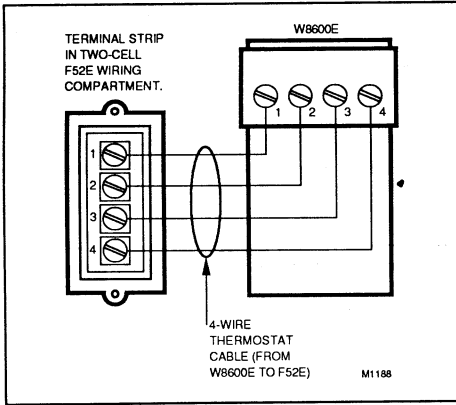


Fig. 4—Wiring the W8600E to the F52E Electronic Air Cleaner's power box terminal strip (two-cell model).

**For F52E 1-Cell Model:**

- Run 4-wire thermostat cable (up to 18 gauge) from the W8600E base to the cable exiting the rear of the F52E.
- Strip 5/16 in. of insulation from ends of W8600E wires.
- Connect F52E wires to W8600E wires, matching numbers (1 to 1, 2 to 2, 3 to 3, 4 to 4), as shown in Fig. 3.
- Install the W8600E cover and visually check the installation's appearance as shown in Fig. 5.

**For F52E 2-Cell Model:**

- Run 4-wire thermostat cable (up to 18 gauge) from the W8600E base to the terminal strip in the wiring compartment of the F52E.
- Strip 1/4 in. of insulation from the ends of the wires and connect them, matching numbers (1 to 1, 2 to 2, 3 to 3, 4 to 4) as shown in Fig. 4.
- Install the W8600E cover and visually check the installation's appearance as shown in Fig. 5.

**CHECKOUT**

**IMPORTANT**

Do not apply 24 V power to the W8600E. The LEDs will burn out, requiring replacement of the device.

Check out the W8600E Indicator installation by making sure all wiring connections are tightly made and that the ON LED lights when the electronic air cleaner is on. Push the test button, and check that the CHECK LED lights. Remove the cell(s), close the access door and make sure the WASH LED lights.

If the LEDs don't light, check the W8600E as follows. You'll need (obtain locally):

- A 9V battery.
- A 2.7K, 10% resistor.
- Three test leads with clips on the ends to connect to the resistor, the battery terminals and the screw terminals on the W8600E. See Fig. 6.
- Disconnect the leads from terminals 1,2,3 and 4 at the W8600E.
- Connect the resistor in series with the plus (+) side of the battery.
- Connect the resistor to terminal 4 on the W8600E.
- Connect the negative (-) side of the battery in turn to terminals 1,2 and 3 on the W8600E. The LED indicated in the table should light when battery power is applied.

TERMINAL	LED
1	ON
2	WASH
3	CHECK

If the LEDs light when battery power is applied, the W8600E is ok. Check the electronic air cleaner according to the troubleshooting procedure in the F50E or F52E specifications.

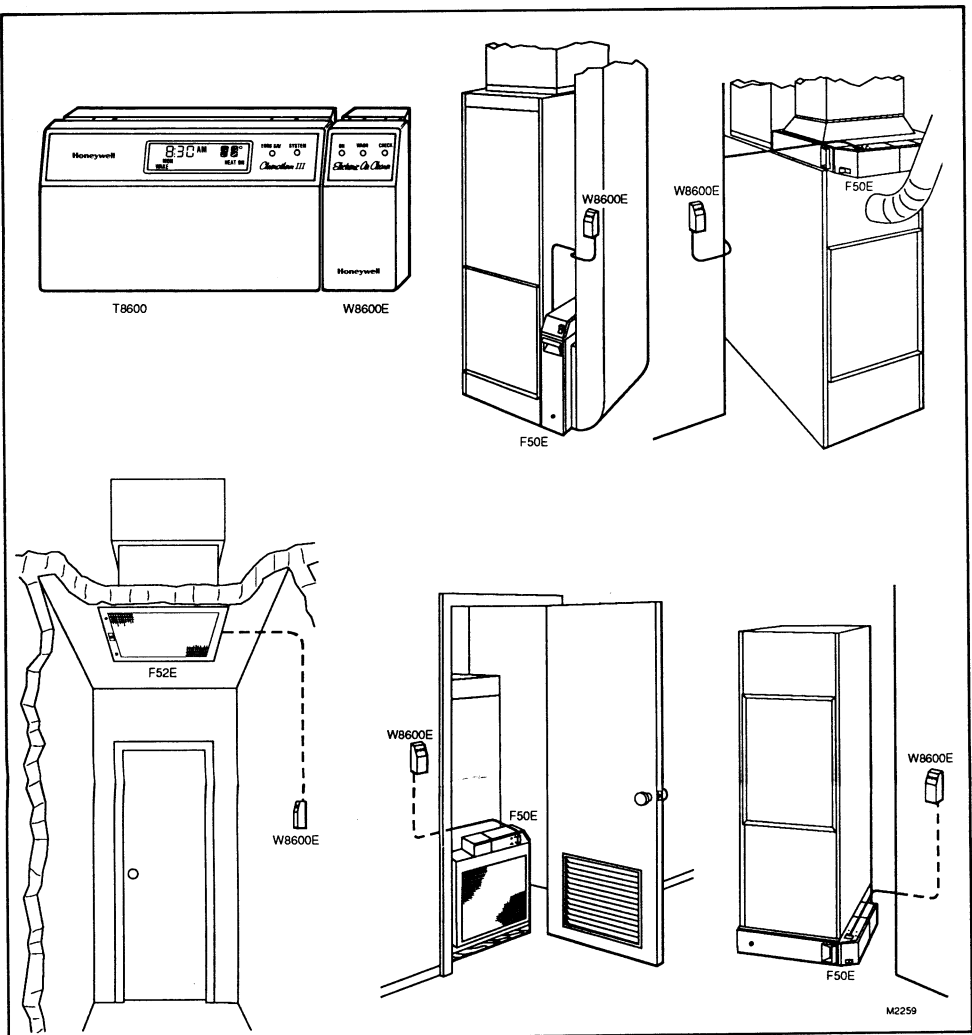


Fig. 5—Completed W8600E installation examples.

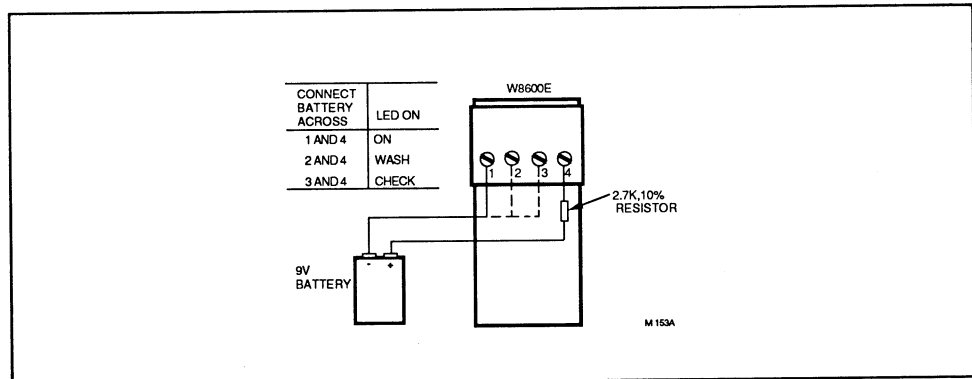


Fig. 6—Check W8600E operation with a 9V battery and 2.7K resistor.

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