

## How to Use Easy Configure

Please read the instructions prior to configuring the thermostat to operate with the equipment.

### EASY CONFIGURE (EC) - QUICK START-UPS

There are five available options in the easy configure mode. Four of the options are preprogrammed for usual installations; H1 (heating only), A1 (cooling only), A1H1 (single cool/single heat) and HP12 (heat pump single cool/2 heat). The last option Othr Ad is for any other installation.

#### Preprogrammed Configurations:

System	H1	A1	A1H1	HP12
Reverse Valve				Type B (heat)
Minimum Off Time	3	3	3	3
Aux. Time Delay				40 seconds
Aux. Temp. Offset				4°
Fan in Heat	Off (fuel)		Off (fuel)	On (electric)
Remote Sensor	Off	Off	Off	Off
Auto Changeover	Off	Off	Off	Off
AdPt*	On	On	On	On
Differential	0.4°	0.4°	0.4° cool/0.4° heat	0.4° cool/0.4° heat
Cycle Rate	5/hr	6/hr	6/hr cool; 5/hr heat	6/hr cool; 5/hr heat
ServiceWatch®**	Off	Off	Off	Off
Password Protection	Off	Off	Off	Off

**\*Advanced Performance Technology (AdPt)** allows the HVAC system to gradually change the temperature from the energy saving setback temperature to the comfort temperature. AdPt is only available in the event schedule mode. Just program the desired time and temperature. The thermostat will activate either heating or cooling at the appropriate time to reach the desired temperature by the correct time. AdPt is active when the current event indicator (WAKE, LEAVE, RETURN, SLEEP) is flashing.

**\*\*ServiceWatch®** monitors the run time hours. It is a program designed to remind the homeowner to schedule service for the HVAC equipment. The maintenance period for filter replacement and heating or cooling service is programmable based on the respective system run times. The control will monitor the run times, and when the programmed settings are reached the display will show **SERVICE** and either **FILTER**, **COOLING** or **HEATING**.

**THIS IS NOT AN EMERGENCY**, just a reminder.

### STEP 1: Enter configuration mode

**PRESS** and hold the MENU and MODE buttons until **CFg** appears on the display.

**PRESS** the FAN button to begin.

**A1H1 and EC** will appear on the display.

### STEP 2: Selecting equipment:

**PRESS** the up or down arrow button to select the proper system.

H1 - heat only  
A1 - cool only  
A1H1 - 1 cool/1 heat  
or  
HP12 - heat pump 1 cool/ 2 heat

### STEP 3: Save and Exit

**PRESS** the MENU button to complete the entry.

The options left have been preprogrammed. If any change in these options is needed select **Othr**.

**PRESS** the MENU button and refer to the instructions on page 2.

Toll free technical assistance is available  
via our technical hotline: 1-800-523-2558  
Mon-Fri, 8:00 A.M. to 4:30 P.M. Eastern Standard Time



1225 Tunnel Road - Perkasio, PA 18944 - 215-257-3621 - Fax 215-257-4288  
Web site - www.psgcontrols.com E-mail - sales@psgcontrols.com

## Configuring “Othr” to Operate the Equipment

Please read the instructions prior to configuring the thermostat to operate the equipment.

It is also advised that the details are noted before beginning, such as the type of equipment, time delays, temperature offsets, etc.

**NOTE:** The configuring mode has a time limit of 10 minutes. The timer is automatically activated when the configuring is started. At the end of the 10 minutes the thermostat will resume normal operation. The configuring parameters will remain unchanged unless the configuring mode was completed in the **End** mode.

### STEP 2: Selecting equipment

**PRESS** the FAN button to enter the equipment mode.

**PRESS** the up or down arrow buttons to select the proper equipment.

- **HP24** - Two stage heat pump, two stage auxiliary heat
- **HP23EH** - Two stage heat pump, single stage auxiliary heat and emergency heat output
- **HP23** - Two stage heat pump, single stage auxiliary heat
- **HP22** - Two stage heat pump, no auxiliary heat
- **HP12EH** - Single stage heat pump with single stage auxiliary heat and emergency heat output
- **HP13** - Single stage heat pump with two stage auxiliary heat
- **HP12** - Single stage heat pump with auxiliary heat
- **HP11** - Single stage heat pump, no auxiliary heat
- **A2H2** - Two stage cool, two stage heat, conventional and normally closed valves
- **A2H0** - Two stage cool, single stage heat, conventional cooling, normally open heat valve
- **A2H1** - Two stage cool, single stage heat, conventional and normally closed valves
- **A1H2** - Single stage cool, two stage heat, conventional and normally closed valves
- **A1H0** - Single stage cool, single stage heat, conventional cooling, normally open heat valve
- **A1H1** - Single stage cool, single stage heat, conventional and normally closed valves
- **A2** - Cool only, two stage compressor
- **A1** - Cool only, single stage compressor
- **H2** - Heat only, two stages, conventional and normally closed valves
- **H0** - Heat only, single stage, normally open heat valve
- **H1** - Heat only, single stage, conventional and normally closed valves

**PRESS** the FAN button to enter the equipment type.

### STEP 3: Selecting equipment options

#### THE FOLLOWING OPTIONS APPEAR DEPENDING ON THE EQUIPMENT SELECTED

- **tyPE** - Selects the reverse valve type “O” or “B”  
**PRESS** the up or down arrow button to select.  
**PRESS** the FAN button to continue.
- **toFF** - Selects the minimum number of minutes between the equipment cycling off and back on  
Selectable range: 01 to 07 minutes, in 1 minute increments  
**PRESS** the up or down arrow button to select.  
**PRESS** the FAN button to continue.
- **y2td** - Selects the delay time in seconds before second stage cooling or the heat pump compressor turns on  
Selectable range: 10 to 90 seconds, in 10 second increments  
**PRESS** the up or down arrow button to select.  
**PRESS** the FAN button to continue.
- **y2SP** - Selects the temperature offset from setpoint for second stage cooling or second stage compressor to turn on  
Selectable range: 04 to 10 degrees, in 2 degree increments  
**PRESS** the up or down arrow button to select.  
**PRESS** the FAN button to continue.
- **h2td** - Selects the delay time in seconds before second stage heating or auxiliary heat turns on  
Selectable range: 10 to 90 seconds, in 10 second increments  
**PRESS** the up or down arrow button to select.  
**PRESS** the FAN button to continue.
- **h2SP** - Selects the temperature offset from setpoint for second stage heating or auxiliary heat to turn on  
Selectable range: 02 to 10 degrees, in 2 degree increments  
**PRESS** the up or down arrow button to select.  
**PRESS** the FAN button to continue.
- **ELEC/FUEL** - Selects when the fan cycles
  - ▲ **FUEL** - Fan cycles only with cooling calls  
Heating system controls fan during heating calls  
Filter hours will still be logged during heating calls
  - ▲ **ELEC** - Fan cycles with both heating and cooling calls  
**PRESS** the up or down arrow button to select.  
**PRESS** the FAN button to continue.
- **rS** - Selects the remote sensor function
  - ▲ **oFF** - default, no remote sensor in use
  - ▲ **rt** - remote is room temperature
  - ▲ **Art** - remote is averaged with thermostat temperature
  - ▲ **out** - remote is outside temperature  
For further options see **NOTE 1**, on page 3
  - ▲ **FLr** - remote is floor slab temperature for use with hydronic floor heating only  
**PRESS** the FAN button to continue.If **FLr** is selected -
  - **HF** - high floor temperature (turns valve off)  
Selectable range: 110°F to 190°F  
**PRESS** the up or down arrow button to select.  
**PRESS** the FAN button to continue.
  - **LF** - low floor temperature (turns valve on)  
Selectable range: 70°F to 95°F  
**PRESS** the up or down arrow button to select.  
**PRESS** the FAN button to continue.

#### NOTE 1:

For HP12, HP13, HP23 and HP24 models and ELEC/FUEL is set to FUEL and rS is set to out, only cd is available. If ELEC/FUEL is set to ELEC and rS is set to out, both cd and Ed are available.

- **cd** - Selects the outside temperature that disables the compressor and switches auxiliary heat to the primary heat

Selectable range: 32°F to 50°F

**PRESS** the up or down arrow button to select.

**PRESS** the FAN button to continue.

- **Ed** - Selects the outside temperature that disables the electric strip heat

Selectable range: 60°F to 70°F

**PRESS** the up or down arrow button to select.

**PRESS** the FAN button to continue.

■ **tEst** - electronically tests equipment selected

**PRESS** the FAN button to continue and to test each function defined below.

Functions will appear based on equipment type selected.

**NOTE:** Wait for equipment to respond before continuing.

▲ **F1** - fan turns on

▲ **C1** - 1st stage cooling and fan turn on

▲ **C2** - 2nd stage cooling and fan turn on

▲ **H1** - 1st stage heating and fan turn on

▲ **H2** - 2nd stage heating and fan turn on

▲ **H1 AUX** - 1st stage auxiliary heating and fan turn on

▲ **H2 AUX** - 2nd stage auxiliary heating and fan turn on

▲ **tEst** - All outputs turn off

**PRESS** the MENU button to continue.

## STEP 4: Selecting special options

**EqUP** will appear on the display.

**PRESS** the up or down arrow button to continue.

**Auto** - Selects auto changeover either on or off

**PRESS** the FAN button to select.

**PRESS** the up or down arrow button to continue.

**AdPt** - Selects adaptive recovery mode either on or off

**PRESS** the FAN button to select.

**PRESS** the up or down arrow button to continue.

**dIFF** - Selects cooling and heating differential settings

**PRESS** the FAN button to continue.

- **cd** - Selects cooling differential

Selectable range: 0.0°F to 2.0°F

Example - 1.0°F will represent ± 0.5°F

**PRESS** the up or down arrow button to select.

**PRESS** the FAN button to continue.

- **hd** - Selects heating differential

Selectable range: 0.0°F to 2.0°F

Example - 1.0°F will represent ± 0.5°F

**PRESS** the up or down arrow button to select.

**PRESS** the FAN button to continue.

**PRESS** the up or down arrow button to continue.

**CyCL** - Selects the heating and cooling cycle rates

**PRESS** the FAN button to continue.

- **cr with HEATING and COOLING** - Selects cycle rate for heat pump compressor or for conventional systems, cooling only
- Selectable range: 2 to 12 cycles per hour

**PRESS** the up or down arrow button to select.

**PRESS** the FAN button to continue.

- **cr with HEATING and AUX** - Selects cycle rate for auxiliary heat or for conventional systems, heating only
- Selectable range: 2 to 12 cycles per hour

**PRESS** the up or down arrow button to select.

**PRESS** the FAN button to continue.

**PRESS** the up or down arrow button to continue.

**SEr** - Selects ServiceWatch® on or off

**PRESS** the MODE button to turn on or off.

**PRESS** the FAN button to continue.

- **SH with SERVICE FILTER** - Selects when, in hours, the filter needs to be changed

Selectable Range: 0 to 9900 hours, in 100 hour increments

Suggested Hours: 1000

**PRESS** the up or down arrow button to select.

**PRESS** the FAN button to continue.

- **AH with SERVICE FILTER** - indicates the number of hours accumulated by the ServiceWatch® monitor

**PRESS** the MODE button to clear accumulated hours.

**PRESS** the FAN button to continue.

- **SH with SERVICE COOLING** - Selects when, in hours, the cooling system needs to be checked

Selectable Range: 0 to 9900 hours, in 100 hour increments

Suggested Hours: 2000

**PRESS** the up or down arrow button to select.

**PRESS** the FAN button to continue.

- **AH with SERVICE COOLING** - indicates the number of hours accumulated by the ServiceWatch® monitor

**PRESS** the MODE button to clear accumulated hours.

**PRESS** the FAN button to continue.

- **SH with SERVICE HEATING** - Selects when, in hours, the heating system needs to be checked

Selectable Range: 0 to 9900 hours, in 100 hour increments

Suggested Hours: 2000

**PRESS** the up or down arrow button to select.

**PRESS** the FAN button to continue.

- **AH with SERVICE HEATING** - indicates the number of hours accumulated by the ServiceWatch® monitor

**PRESS** the MODE button to clear accumulated hours.

**PRESS** the FAN button to continue.

**PRESS** the up or down arrow button to continue.

**SAFE** - Selects password protection on or off

**PRESS** the FAN button to continue.

**PRESS** the up or down arrow button to turn on or off (YES or no).

**PRESS** the FAN button to continue.

**PRESS** the up or down arrow button to select the proper d1 digit.

**PRESS** the FAN button to proceed to the d2 digit. Continue until all four digits are correct.

**PRESS** the MENU button to continue.

**PRESS** the MENU button again to continue.

## STEP 5: Save parameters and Exit

**PRESS** the up or down arrow button to **END**.

**PRESS** the MENU button to save parameters and exit.

3 **REMINDER** - This step MUST be completed to save parameters.

## How to Program Advanced Settings

### Please read the instructions prior to beginning to program.

**NOTE:** The advanced settings mode has a time limit of 10 minutes. The timer is automatically activated when the programming is started. At the end of the 10 minutes the thermostat will resume normal operation. The advanced settings parameters will remain unchanged unless the advanced settings mode was completed in the **End** mode.

### **STEP 1:** Enter advanced settings mode

**PRESS** and hold the MENU and FAN buttons until **PSEt** appears on the display.

**PRESS** the FAN button to begin.

If the advanced settings mode has been password protected (safe mode), the display will show (4) 0's and d1. The proper password, (4) digits, is needed.

**PRESS** the up or down arrow button to select the proper d1 digit. **PRESS** the FAN button to proceed to the d2 digit. Continue until all (4) digits are correct.

**PRESS** the MENU button to continue.

**unit** will appear on the display.

If the advanced settings mode has not been password protected,

**PRESS** the FAN button and **unit** will appear on the display.

### **STEP 2:** Selecting advanced options

**unit** - Selects the unit of measure (°F or °C)

**PRESS** the up or down arrow button to select.

**PRESS** the FAN button to continue.

**dSt** - Selects daylight savings time on or off

**PRESS** the up or down arrow button to select.

**PRESS** the FAN button to continue.

**PF** - Selects the scheduling parameter

Selectable range: 7 day (7d), 5-1-1 (511d) or 5-2 (52d)

**PRESS** the up or down arrow button to select.

**PRESS** the FAN button to continue.

**NOTE:** Changing this setting will automatically restore the factory default schedule. Any programmed settings of the schedule will be lost.

**HL** - Selects the heating limit temperature

Selectable range: 40°F to 90°F

**PRESS** the up or down arrow button to select.

**PRESS** the FAN button to continue.

**CL** - Selects the cooling limit temperature

Selectable range: 40°F to 90°F

**PRESS** the up or down arrow button to select.

**PRESS** the FAN button to continue.

**SAFE** - Selects the level of password protection desired

Selectable parameters:

● **oFF** - No password protection

● **LSEt** - Advanced settings protected

● **LSch** - Schedule protected

● **LALL** - All modes protected (See note below)

**PRESS** the up or down arrow button to select.

If **oFF** is selected -

**PRESS** the MENU button to continue.

**PRESS** the FAN button again to continue to Step 3.

If **LSEt**, **LSch** or **LALL** is selected -

**PRESS** the FAN button to continue.

**PRESS** the up or down arrow button to select the proper d1 digit.

**PRESS** the FAN button to proceed to the d2 digit. Continue until all (4) digits are correct.

**PRESS** the MENU button to continue.

**PRESS** the MENU button again to continue.

**PRESS** the FAN button again to continue to Step 3.

**NOTE:** **LALL** locks all parameters, buttons and modes.

The temperature cannot be raised or lowered; the time cannot be changed; auto/constant fan cannot be changed; etc.

When any of the buttons are pressed the password protection display appears. Entering the password enables access to the buttons for 5 minutes. At that time temperatures can be changed, auto/constant fan can be changed and access to the programming modes are available. Changes are automatically saved. If the 5 minutes lapses then the password must be entered again.

### **STEP 3:** Save parameters and Exit

**END** will appear on the display.

**PRESS** the MENU button to save parameters and exit.

**REMINDER** - This step **MUST** be completed to save parameters.

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