












PEC original and new cover comparison

This document highlights some of the differences between the previous and the new and improved PEC. This document is not a replacement for the PEC user manual; it is a reference guide for those more familiar with the previous PEC model. All users, regardless of their familiarity with the PEC, should read the new manual.

Interface differences

The table below shows the differences between the buttons and interface on the original PEC and the new and improved PEC.

Original PEC		New and improved PEC	
	Program button		Program button. Press Program to scroll through the Program settings, Configuration, Alarm, and Test menus.
	Store button		Select button. Press Select to select an item or accept a value.
	Parameter button		No longer exists
	Return button		Back button. Press Back to go to the previous menu or item.
	Up button		Up button. Press Up to scroll through a menu or increase a value.
	Down button		Down button. Press Down to scroll through a menu or decrease a value.

Configuration programming

Parameters 24 and up are common to programs A, B, C, and D. Below is a basic example of how to program configuration items.

1. Press **Program** until **CONF** displays and then press **Select**.
The display shows **24**, the first item in the Configuration menu.
2. Press **Up** or **Down** to select the parameter you want to change and then press **Select**. Use the parameter comparison table on page 3 as a reference.
3. Press **Up** or **Down** to adjust or change the item and then press **Select**. NOTE: Pressing **Back** also accepts the new value and does NOT cancel the changes.
4. Press **Back** twice to return to the Main display.

Parameter programming

On the original PEC, most temperature parameters were offset values. In the new and improved PEC, all temperature parameters except 14 and 33 are absolute values.

For example, for the original PEC with a *Temp Set* of 70°F, to set a *Stage 1 P-Band1* of 75°F, you would enter 5.0. For the new PEC, you enter 75.0.

Below is a basic example of how to program parameter settings.

1. Press **Program** and then select a program you want to adjust.
2. Press **Up** to select the parameter you want to change and then press **Select**. Use the parameter comparison table on page 3 as a reference.
3. Press **Up** or **Down** to adjust the value and then press **Select**.
4. Press **Back** twice to return to the Main display

Always set the *Group set point*, parameter 1, to the target room temperature before adjusting the other temperature parameters. Phason recommends setting the *Stage 1 set point*, parameter 4, to match *Group set point*.

Selecting the active operating program

In the new and improved PEC, parameter 0 is the active operating program. Parameter 0, Memory protection, from the original PEC no longer exists.

1. Press **Program** to display any of the four programs (A, B, C, and D) and then press **Select**.
The display shows **0**, the first item in the Program settings menu.
2. Press **Select**.
The display shows the current active operating program.
3. Press **Up** or **Down** to change the active operating program and then press **Select**.
4. Press **Back** twice to return to the Main display.

Parameter comparison chart

Refer to the **PEC user manual** for defaults, ranges, and menu items. **NOTE:** Setting parameters 28 to 30 to "on" causes the stages to be on continuously.

Original PEC		New and improved PEC	
Parameter	Description	Parameter	Description
0	Memory protect	0	Operating program
1	Temp Set (Start P-Band1)	1, 4	Group set point, Stage 1 set point
2	Stage 1 min vent	2	Stage 1 idle speed
3	Stage 2 min vent	6	Stage 2 idle speed
4	Inlet min	15	Inlet stage 1 idle range position
5	Stage 1 off-set-back	3	Stage 1 idle range
6	Stage 1 P-band 1	5	Stage 1 differential
7	Stage 2 off-set-back	7	Stage 2 idle range
8	Stage 2 start P-band 2	8	Stage 2 set point
9	Stage 2 P-band 2	9	Stage 2 differential
10	Stage 3 turn on	10	Stage 3 set point
11	Stage 4 turn on	11	Stage 4 set point
12	Stage 5 turn on	12	Stage 5 set point
13	Inlet close-set-back	3	Stage 1 idle range
14	Position P-band 1	16	Inlet stage 1 differential position
--	--	17	Inlet stage 2 idle range position
15	Position P-band 2	18	Inlet stage 2 differential position
16	Position stage 3	19	Inlet stage 3 set point position
17	Position stage 4	20	Inlet stage 4 set point position
18	Position stage 5	21	Inlet stage 5 set point position
19	Low temp alarm	23	Low temperature alarm
20	High temp alarm	22	High temperature alarm
21	Low power alarm	--	Alarm relay triggers but no display
22	Inlet alarms	42	Actuator jam enable
23	Alarm latching	--	All alarms now latch
24	Ventilation	43	Stage override
25	Units F or C	24	Temperature unit
--	--	26	Variable 1 configuration
--	--	27	Variable 2 configuration
26	Stage 3 Heat or Cool	28	Stage 3 configuration
27	Stage 4 Heat or Cool	29	Stage 4 configuration
28	Stage 5 Heat or Cool	30	Stage 5 configuration
29	Stage 5 Proportional	30	Stage 5 configuration
--	--	31	Actuator configuration
30	Stage 5 Interval	14	Stage 5 P-band interval
31	Stage 5 P-Band	13	Stage P-band temperature
32	Stage 1 Minimum Idle	--	Removed
33	Stage 2 Minimum Idle	--	Removed
34	Hysteresis	33	Hysteresis
35	Stage 1 P.F. Comp	--	Removed
36	Stage 2 P.F. Comp	--	Removed
37	Inlet Manual Operation	43, 45	Stage override, Actuator position display
38	Inlet Hysteresis	33	Hysteresis
39	Inlet Time Out	--	Now fixed at 20 seconds
40	Inlet Calibration	32	Actuator calibration

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