












TVS original and new cover comparison

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

Interface differences

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

Original TVS		New and improved TVS	
 Prog	Program button	 P	Program button. Press Program to scroll through the Program settings, Configuration, Alarm, and Test menus.
 Store	Store button		Select button. Press Select to select an item or accept a value.
 Parm	Parameter button		No longer exists
 Return	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 13 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 **13**, 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 TVS, most temperature parameters were offset values. In the new and improved TVS, all temperature parameters except 18 are absolute values.

For example, for the original TVS 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 TVS, 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 TVS, parameter 0 is the active operating program. Memory protection from the original TVS 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 **TVS user manual** for defaults, ranges, and menu items. **NOTE:** Setting parameter 17 to *on* causes the stage to be on continuously.

Original TVS		New and improved TVS	
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	Stage 1 off-set-back	3	Stage 1 idle range
5	Stage 1 P-band 1	5	Stage 1 differential
6	Stage 2 off-set-back	7	Stage 2 idle range
7	Stage 2 start P-band 2	8	Stage 2 set point
8	Stage 2 P-band 2	9	Stage 2 differential
9	Stage 3 turn on	10	Stage 3 set point
12	Low temp alarm	12	Low temperature alarm
13	High temp alarm	11	High temperature alarm
14	Low power alarm	27	Power fail enable
15	Alarm latching	--	All alarms now latch
16	Ventilation	28	Stage override
17	Units F or C	13	Temperature unit
18	Stage 3 Heat or Cool	17	Stage 3 configuration
21	Stage 1 Minimum Idle	--	Removed
22	Stage 2 Minimum Idle	--	Removed
23	Hysteresis	18	Hysteresis
24	Stage 1 P.F. Comp	--	Removed
25	Stage 2 P.F. Comp	--	Removed
		15	Stage 1 configuration
		16	Stage 2 configuration
		14	Frequency
		19	Settings save
		20	Settings restore
		21	Factory defaults
		22	Firmware update
		23	Firmware display
		24	High temp enable
		25	Low temp enable
		26	Probe damage enable
		29	Temperature override

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