

Technical Note

Vertex™ Software Release 1.23.1

1998-0736 Rev 1 2/08

Software update provides improved performance

Honeywell Analytics is pleased to announce the release of software version 1.23.1 for the Vertex™. The installation procedure for the software is presented in Technical Note 1998-0558. This new release provides improvements to performance and information.

Parameter renamed for accuracy

The “20 mA Conc” field on the Point Configuration screen has been renamed “PLC F/S Conc.” This change is appropriate because the 20 mA output option has been discontinued. The modified label on the configuration editor is shown in the pink rectangle in Figure 1.

Figure 1 – Configure Point Form

Along with the change to the Point Configuration screen, the PLC F/S Conc information has been added to the point detail screen. The new data is shown in the pink rectangle in Figure 2.

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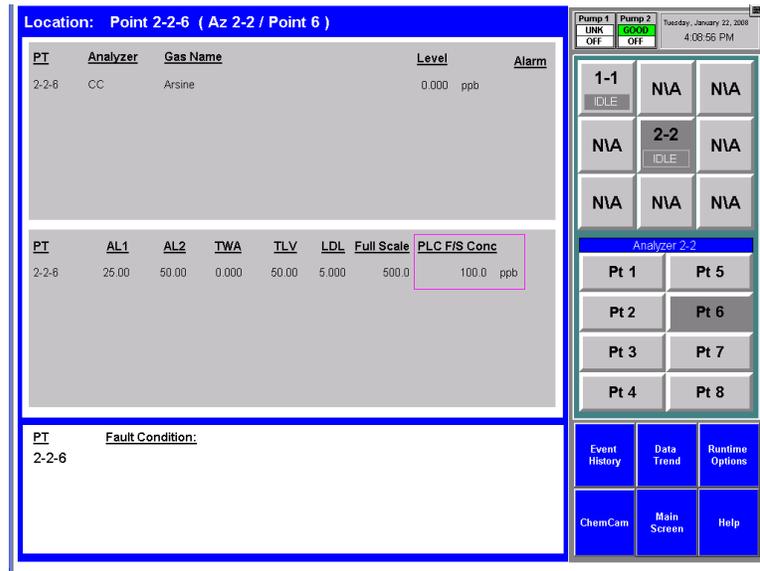


Figure 2 -- Point Detail Screen

Alarm and Fault Simulation made more intuitive

The HMI screen for alarm and fault simulation has been made more intuitive. The changes to the alarm simulation screen are shown below in the pink rectangle in Figure 3, changes to fault simulation in Figure 4. Specifically, the analyzer and point selection are retained after an alarm or fault test to ease repeating the test. Also, a label has been added above the button that indicates what is being simulated. For alarms, the mnemonic location name is displayed. This is "Lincolnshire, Illinois" in the example below. The button text is improved to make it clear that pressing the "Create" button is the final step before an alarm or fault.

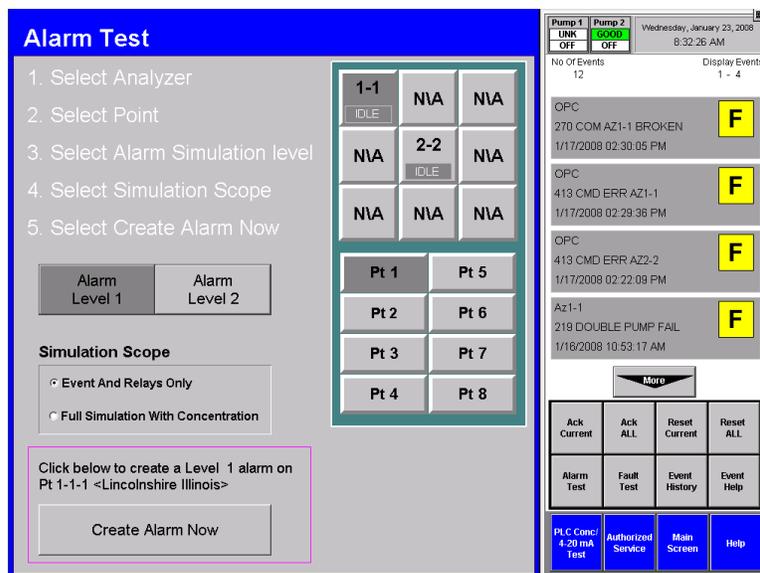


Figure 3 -- Alarm Test Screen

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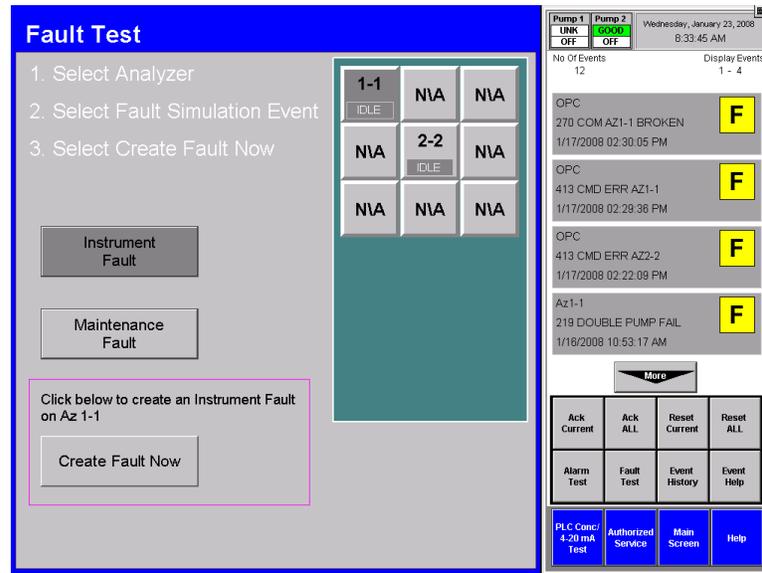


Figure 4 -- Fault Test Screen

New Gas Calibration Available

A new calibration has been added for SiH₄ low-level detection using the XP-Hydrides tape.

Gas Name	TLV	LAL	LDL	Default Alarm Level 1	Default Alarm Level 2	Range	Alarm Setting	Initial Analysis Period (sec)	Time to 1 TLV Alarm @ 2 TLV Concentration 10 Foot Sample Line	Chemcassette Part Number
Silane XP (SiH ₄) Low Level	500 ppb	50 ppb	50 ppb	250 ppb	500 ppb	50-5000 ppb	50-249 ppb 250-499 ppb 500-999 ppb 1000-5000 ppb	360 240 120 60 0	99 sec	1295-0226

Flow Auto-Balance improved

The “flow auto-balance” function has been modified to be more thorough. Now a check for the slope of valve response uses three sample windows of tape instead of one. This reduces the effect of any tape variations on the analyzer’s flow corrections.

The auto balance routine has been modified to create a maintenance fault if the valve characteristics seem unsuitable. The new fault’s short name is “127 AUTOBALANCE FAIL” and the long name is “127 Flow Autobalance Failed”.

If auto-balance is started while fault 127 is active, the Vertex will not perform another auto balance. Instead, it will create an informational event “Auto balance skipped - Flt 127 Active”

Note: This improvement causes the flow balance time to increase from 80 to 130 seconds.

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Flow control logic changed to control maintenance fault

The flow control logic has been changed to reduce in frequency of maintenance fault 108 (“FLOW ADJ ERR HI”) Now fault 108 will only be issued if the flow is out of tolerance on two windows consecutively. The first window will be truncated early as with low flows.

Profile editor modified to prevent inadvertent setting change

The profile editor has been changed to reduce the danger that the “Inverted Gas Alarm Relays” setting can be changed inadvertently. To accomplish this, the five tabs shown in Figure 5 are changed such that the “Misc.” tab is now visible by default and not the “Events / Alarms” tab. Furthermore, the checkboxes are rearranged such that “non-latching” is in the top left position instead of “invert relays”. These changes are highlighted in color in Figure 5.

As before, actually changing the “invert relays” checkbox causes a message box to appear: “Do you really want to change the setting for inverted relays?”.

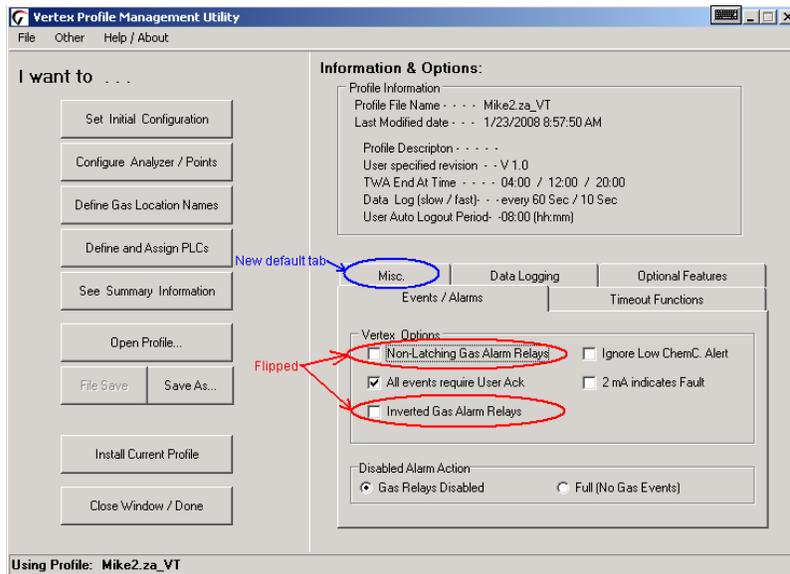


Figure 5 -- Configuration Editor

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**Honeywell Analytics Inc.
405 Barclay Boulevard
Lincolnshire, IL 60069**

For more information
contact Honeywell Analytics'
Service Department during
normal business hours at:

**800-323-2000
or 847-955-8200**

**24-Hour Emergency
Service Hotline:
847-634-2840**

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