

## Technical Note

# Vertex Communications Manual Override

### Addendum to Vertex Technical Handbook

1998-0635 Rev 1 9/05

The Vertex Analyzer is equipped with a “Manual Override” button (Figure 1) in the event the communications to the Vertex Data Acquisition (DAQ) computer halts. This button activates only when the communications has completely ceased.

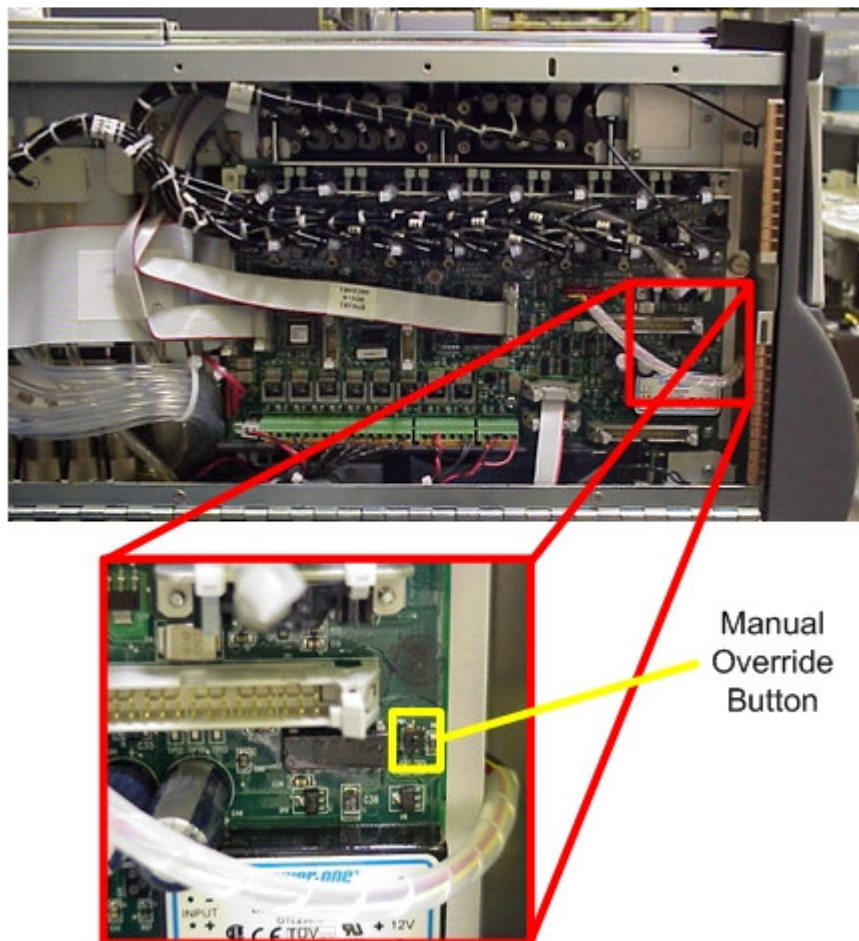


Figure 1 – Vertex Analyzer Manual Override Button Location

# Technical Note

There are cases where the DAq appears to be “frozen” or “locked-up” (no response from the keyboard and/or any user invoked actions after a few moments) when in reality this is not the case. Events that could cause these symptoms include AC power surges or sages and improper shut-downs of the DAq that result in file corruption. As a result, future attempts to access these files can slow down the response of the DAq. To confirm a non-responsive DAq as opposed to frozen/locked-up, check the clock located in the upper right hand corner of the Vertex HMI window (shown in Figure 2). If the clock is still advancing, then the DAq CPU is *not* frozen/locked-up and your local Authorized Service Center needs to be contacted for assistance.

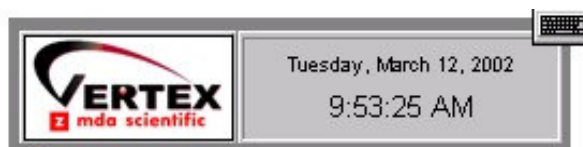


Figure 2 – Vertex HMI Clock

On occasions, there may be the need to install a new Chemcassette<sup>®</sup> to continue monitoring your facility, or to reset alarms or faults. If the DAq is not responding, these tasks can be performed using the “Manual Override” button. An extra step may be required to “force” activation of the “Manual Override” button under the above mentioned conditions if the DAq computer is still communicating with the analyzers. The following instructions will instruct you on how to accomplish this task:

**Note:** Performing this task will generate Maintenance Fault F111 – DACS COM FAIL

1. Manually release the Analyzer by sliding the Removal key into slot located in the bottom of the Analyzer front (key located in Software Binder shipped with each Vertex rack) and slide the Analyzer out of the cabinet. See Figure 3.

# Technical Note

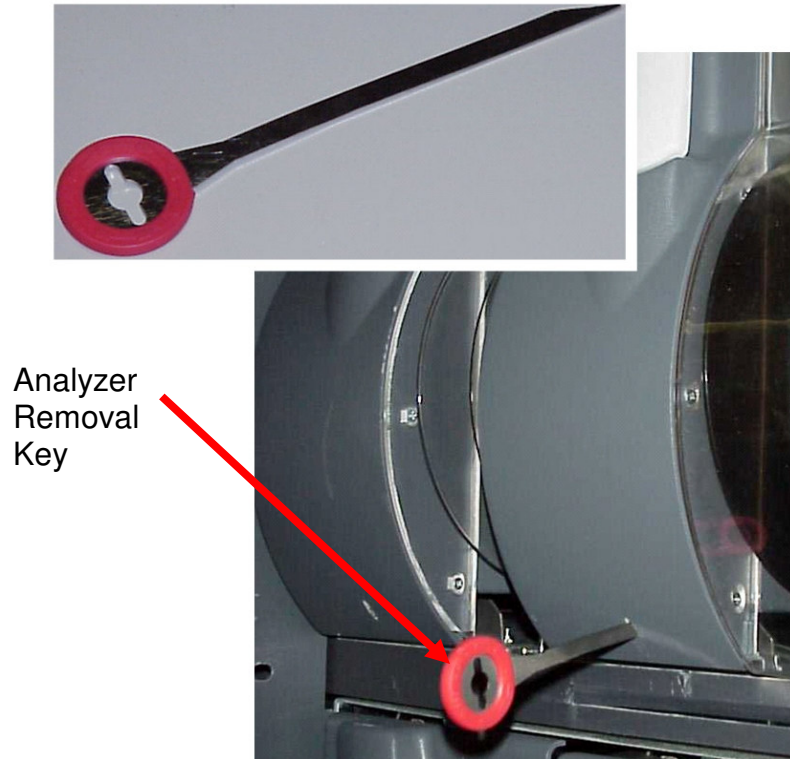


Figure 3 – Vertex Analyzer Removal Key and Slot Location

2. Locate the Ethernet cable on the rear panel and disconnect it.

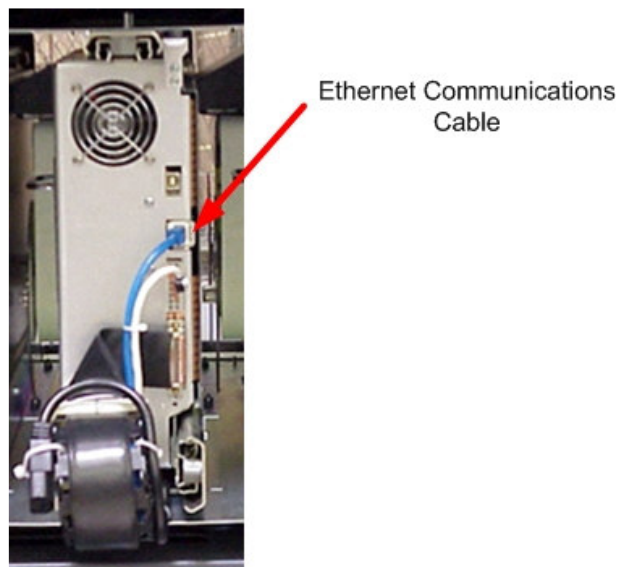


Figure 4 – Analyzer Ethernet Communication Cable Location

# Technical Note

- Open the side of the Analyzer by unscrewing the 4 thumbscrews at the top of the left side.

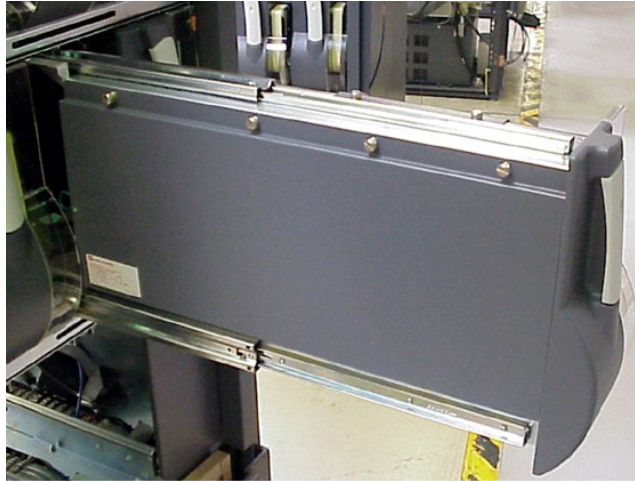


Figure 5 - Analyzer

- Approximately 20 seconds after the Ethernet Cable has been disconnected, the Analyzer will recognize that it has lost communications with the DAQ and activate the “Manual Override” button shown in Figure 1. The LED’s on the front of the Analyzer will flash to show a Maintenance Fault per the LED status flash pattern shown below in Figure 6.

Mon State	Alm Stat	Flt Stat	500 milliseconds	400 milliseconds	100 mS
idle	0	none	black	black	green
		maint	amber	black	black
		inst	amber	black	black
	1	any	red	black	black
2	any	red	black	black	
pyro warm	0	none	green	black	black
		m or i	green	black	amber
	1 or 2	any	green	black	red
monitoring	0	none	green	green	black
		maint	amber	green	green
		inst	amber	green	green
	1	any	red	red	green
	2	any	red	green	green
primary program invalid			[Yellow/Black Flashing Pattern]		
unpowered			black		
lockup			green		
			amber		
			red		

Figure 6 – Status LED Flash Pattern

# Technical Note

*To Reset Faults and Alarms:* Press and hold button for 1-3 seconds

*To Put Analyzer into Monitor mode:* Press and hold button for 4-9 seconds

*To Exit Monitor and Open Gate:* Press and hold button for 10 seconds and above

5. Close and reattach the Analyzer cover, reconnect the Ethernet Communications Cable and slide the Analyzer into the cabinet.

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