VersaTenn V 21 December 2001, Revision 3

Application Note 5

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This application note describes the "Low Storage Alarm" feature of the VersaTenn V. It explains the purpose of the alarm and provides step by step instructions for clearing the alarm and adjusting the chamber settings to prevent this alarm from occurring.

VersaTenn V Low Storage Alarms

The VersaTenn V monitors the space remaining on the storage card, a Disk-on-Chip[™] (DOC) Flash File device, and generates an alarm condition when the space remaining is less than 160K. Thus. a Low Storage Alarm condition will occur when the logging file and chamber profile program files near the DOC capacity. Application Note 1 explains how to calculate the VersaTenn V Data Logging Capacity.

Removing a Low Storage Alarm Condition

When an alarm occurs, the word "Alarm" flashes in the title bar of the VersaTenn V control panel. To determine if your alarm condition is a Low Storage alarm, go to the Maintenance\Alarms folder and read the alarm description (Figure 1 below).

Maintenance Screen		ALARM	
e Back Ack Alar	m \Alarms\		
Time	Alarm	Ack	Cleared
1:31:20 PM	Low Storage	No	No
Alarm, Low Storage 25.0 C 50.0 %			50.0 %
Figure 1			

To clear the alarm condition, export the logging history data and clear the file according to the following steps:

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1. Go to Setup Screen folder and scroll down to select the Logging folder (Figure 2).



2. Select Export History if you would like to save the history file. This step can be skipped if you don't need the data in the log file. See VersaTenn V AppNote3 -

WARNING: Logging data cannot be recovered after being deleted.

Export History File for detailed instructions.



Figure 3

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3. Go to the Setup Screen and select the \Logging\Clear History folder (Figure 4) Press the Clear History button to delete the current history file and free its space on the DOC storage card. The chamber should now be free of the Low Storage alarm condition.



Figure 4

4. Acknowledge the Low Storage Alarm Condition.

Once you have cleared the alarm condition, you can acknowledge the alarm to remove the Flashing "Alarm" message in the title bar. The alarm acknowledge procedure ensures that the user sees the alarm event before it is cleared. To acknowledge the Low Storage alarm, go to the Maintenance Screen and select the Alarms folder (Figure 5). The Low Storage alarm should say "Yes" in the Cleared Column. Select the Low Storage Alarm.

🔒 Maintenance Screen						
e Back	Ack Alari	\Alarms\				
Time		Alarm	A	:k	Cleared	
1:31:20	PM	Low Storage	N)	Yes	
Alarm, Low Storage 25.0 C 50.0 %						
Figure 5						

Press the "Ack Alarm" button. The Alarm condition is now acknowledged and cleared and is removed from the list (Figure 6).

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📕 Maintenance Screen		1:35	1:35:13 PM	
Back	Ack Alar	\Alarms\		
Time		Alarm	Ack	Cleared
Chambe	er Off		25.0 C	50.0 %
		Figure	6	

Preventing the Low Storage Alarm condition

You can eliminate the recurrence of a Low Storage Alarm Condition by adjusting the Log File Size to a value less than the space available on the VersaTenn V Storage Card. Follow the steps below:

1. Go to the Setup screen and select the \Logging\Setup folder (See Figure 3). Select Log File Size and press the "Change" button.

📕 Setup Screen		4:42:41 PM		
eack	\Logging\Setup\			
Enable Loggina	Logging q Interval (sec)	Logging Enabled 60		
Log File Size (MB)		4.00		
Description The 'Logging File Size' feature allows the user to				
Chang	e set the log file size.	It is measured in megabytes.		
Chamber	rOπ	25.0 C 50.0 %		

Figure 7

2. Change the Log File Size to 1.40 MB.

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The maximum Log File Size is now set to 1.40 MB so the chamber will not reach a Low Storage Alarm condition unless 600K or more of chamber profile programs are stored. If the history file reaches the Log File Size limit in the Logging Setup folder, new logging information is added to the file and the oldest data is removed in a FIFO (First In First Out) basis.

Setup Screen		4:19:52 PM	
eack	\Logging\Setup\		
Enable Logging Logging Interval (sec) Log File Size (MB)		Logging Enabled 60 1.40	
Description The 'Enable Logging' feature allows the user to enable or disable logging of data. Chamber Off 70.6 C -0.6 %			

Figure 8

For more information on Logging, see the operating manual and/or the VersaTenn V AppNote1- Data Logging Capacity Calculations.

For more information on the process of exporting history files see the operating manual and/or the VersaTenn V AppNote3 - Export History File.