



Entegris Alarms Document

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DESCRIPTION:

This document describes the Alarm Event Log codes for the GV148 Concentration Monitoring System.

This document is auto generated directly from the source code of HMI/FIRMWARE.

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Alarm Descriptions

Alarm 20	Power ON	Info
Message	System power on. Total power ons: \$LONG	
Description	Information: The unit was powered on or reset (#) times.	
Possible Solutions		

Alarm 21	Testing (shorts)	Info
Message	short0 = \$SHORT0 short1 = \$SHORT1	
Description	Used for internal testing	
Possible Solutions		

Alarm 22	Testing (ushorts)	Info
Message	short0 = \$USHORT0 short1 = \$USHORT1	
Description	Used for internal testing	
Possible Solutions		

Alarm 23	Testing (Pressure)	Info
Message	pressure0 = \$PRESSURE0 pressure1 = \$PRESSURE1	
Description	Used for internal testing	
Possible Solutions		

Alarm 24	Testing (ml)	Info
Message	ml0 = \$ML_0 ml1 = \$ML_1	
Description	Used for internal testing	
Possible Solutions		

Alarm 25	Testing (bytes)	Info
Message	byte0=\$BYTE0 byte1=\$BYTE1 byte2=\$BYTE2 byte3=\$BYTE3	
Description	Used for internal testing	
Possible Solutions		

Alarm 26	Testing (time)	Info
Message	time = \$TIME	
Description	Used for internal testing	
Possible Solutions		

Alarm 27	Testing (long)	Info
Message	long = \$LONG	
Description	Used for internal testing	
Possible Solutions		

Alarm 28	Clock Set	Info
Message	Clock time set (was \$TIME)	
Description	The time was set in the real time clock. The previous value is shown for reference.	
Possible Solutions	The real time clock should only need to be set infrequently. If this is a frequent event, call an Entegris representative for more information.	

Alarm 29	System Reset -Serial	Info
Message	Software reset	
Description	A software reset was performed.	
Possible Solutions		

Alarm 30	Firmware	Info
Message	Flashing firmware: Past Firmware Version: \$USHORT1	
Description	New firmware was installed.	
Possible Solutions		

Alarm 31	Alarms Cleared (re-init)	Info
Message	\$SHORT1 alarms were cleared by the user - Re init was required	
Description	(#) alarms were cleared and system required a re-initialization.	
Possible Solutions		

Alarm 32	Alarms Cleared	Info
Message	\$SHORT1 alarms were cleared by the user	
Description	(#) alarms were cleared and system did not require a re-initialization.	
Possible Solutions		

Alarm 34	User Requested Reinit	Info
Message	The re-init hardware line was activated	
Description	A signal from the track to reinitialize was received.	
Possible Solutions		

Alarm 35	Unknown New Module	Info
Message	New unknown module type: \$LONG	
Description	The system does not recognize the module type.	
Possible Solutions	Confirm the module type is correct. Possible outdated firmware or communication problem.	

Alarm 36	Maintenance Timeout	Info
Message	Maintenance mode was started with a timeout of \$LONG minutes	
Description	Maintenance mode was started with a timeout.	
Possible Solutions		

Alarm 41	New Major Version	Info
Message	New Major Version (\$SHORT1->\$SHORT0)	
Description	Displays the major version of the system after an upgrade	
Possible Solutions		

Alarm 42	New Minor Version	Info
Message	New Minor Version (\$SHORT1->\$SHORT0)	
Description	Displays the minor version of the system after an upgrade	
Possible Solutions		

Alarm 43	New Product	Info
Message	New Product ID detected (\$SHORT0->\$SHORT1)	
Description	The Product ID is set by a dip switch setting on the Internal PCB. This alarm will typically happen on the first power-up and never happen again. It could mean that the hardware switches were set incorrectly for the hardware. It could also mean that the Internal or Main PCB has failed.	
	Possible Solutions	

Alarm 44	Invalid Product	Error
Message	Product ID invalid. Product ID was defaulted (\$SHORT0->\$SHORT1)	
Description	The Product ID that was set by the hardware is invalid. The product ID was default to 0	
Possible Solutions		

Alarm 45	New Module	Info
Message	New Module: \$MODULE	
Description		
Possible Solutions		

Alarm 46	Clock Error	Warning
Message	The RTC time is off by \$LONG seconds	
Description	The software RTC and the hardware RTC are out of sync. Solution: Contact Entegris Support if the problem persists	
Possible Solutions		

Alarm 49	PLL Limp Error Event	Error
Message	PLL Limp Mode: DIV=\$USHORT1 DIVSEL=\$USHORT0	
Description	PLL Limp Mode - OSCCLK is removed or absent from the system	
Possible Solutions	This alarm should not occur in normal operation. Power down to re-initialize the system. If problem continues, please contact an Entegris customer representative for more information.	

Alarm 50	PLL Wrong Error Event	Warning
Message	PLL changed: DIV=\$USHORT1 DIVSEL=\$USHORT0	
Description	PLL Corrected	
Possible Solutions	This alarm should not occur in normal operation. Power down to re-initialize the system. If problem continues, please contact an Entegris customer representative for more information.	

Alarm 60	Module Errors	Error
Message	Too many errors with interface module: \$ULONG	
Description	The connection to the interface module has errors.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 61	Module Remote Errors	Error
Message	Too many errors reported by interface module: \$ULONG	
Description	The connection to the interface module has errors.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 62	Module Syncs	Error
Message	Synchronization Error with interface module (Syncs=\$LONG)	
Description	The connection to the interface module has errors.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 63	Module Communications	Error
Message	Lost communication with the interface module (Syncs=\$LONG)	
Description	The connection to the interface module has errors.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 65	Note Saved	Info
Message	User note saved at record: \$ULONG	
Description	A note was saved to the log	
Possible Solutions	Alarm indication that a note was saved to the log	

Alarm 70	Cycle Counters Erase	Warning
Message	Cycle counters fail (lb=\$USHORT0)	
Description	Saved structure in memory is corrupted.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 71	Cycle Counters Write	Warning
Message	Cycle counters fail (lb=\$USHORT0, ptr=\$USHORT1)	
Description	Saved structure in memory is corrupted.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 72	Cycle Counters Read	Warning
Message	Cycle counters fail (lb=\$USHORT0, ptr=\$USHORT1)	
Description	Saved structure in memory is corrupted.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 200	Initialize System Parameters	Warning
Message	Writing System Parameters: On flash memory page \$SHORT1	
Description	Saved structure in memory is corrupted.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 201	Initialize System Names	Warning
Message	Writing System Names: On flash memory page \$SHORT1	
Description	Saved structure in memory is corrupted.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 203	Initialize Firmware Info	Warning
Message	Writing Firmware Info: On flash memory page \$SHORT1	
Description	Saved structure in memory is corrupted.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 205	Initialize Version	Warning
Message	Writing Version: (\$SHORT1)	
Description	Saved structure in memory is corrupted.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 207	Initialize Cycle Counters	Warning
Message	Cycle counters fail (lb=\$USHORT0, ptr=\$USHORT1)	
Description	Saved structure in memory is corrupted.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 210	Initialize Serial Numbers	Warning
Message	Writing Serial Numbers (\$SHORT1)	
Description	Saved structure in memory is corrupted.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 212	Initialize Cycle Information	Warning
Message	Writing Cycle Info Reference (\$SHORT1)	
Description	Saved structure in memory is corrupted.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 217	Initialize Factory Sensor Calibration	Warning
Message	Writing Sensor Calibration (\$SHORT1)	
Description	Saved structure in memory is corrupted.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 218	Initialize Concentration Calibration	Warning
Message	Writing Concentration Calibration (\$SHORT1)	
Description	Saved structure in memory is corrupted.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 220	Initialize Analog Calibration Input Minimums	Warning
Message	Writing Analog Input Minimum Calibration	
Description	Saved structure in memory is corrupted.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 221	Initialize Analog Calibration Input Maximums	Warning
Message	Writing Analog Input Maximum Calibration	
Description	Saved structure in memory is corrupted.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 222	Initialize Analog Calibration Output Minimums	Warning
Message	Writing Analog Output Minimum Calibration	
Description	Saved structure in memory is corrupted.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 223	Initialize Analog Calibration Output Maximums	Warning
Message	Writing Analog Output Maximum Calibration	
Description	Saved structure in memory is corrupted.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 224	Initialize Serial Numbers	Warning
Message	Writing Test Information (\$SHORT1)	
Description	Saved structure in memory is corrupted.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 227	Initialize Sensor Serial Number	Warning
Message	Writing Sensor Serial Number (\$SHORT1)	
Description	Saved structure in memory is corrupted.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 228	Initialize Sensor Serial Number	Warning
Message	Writing RI Temperature Compensation (\$SHORT1)	
Description	Saved structure in memory is corrupted.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 230	Initialize baudrate	Info
Message	Communications baudrate (\$USHORT1)	
Description	Baudrate of communication set	
Possible Solutions		

Alarm 231	Initialize Model	Warning
Message	Writing Model Information (\$SHORT1)	
Description	Saved structure in memory is corrupted.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 232	Initialize Analog Parameters	Warning
Message	Writing Analog Parameters: On flash memory page \$SHORT1	
Description	Saved structure in memory is corrupted.	
Possible Solutions	Power down to re-initialize system. If problem continues, call an Entegris representative for more information.	

Alarm 300	Fixing System Parameters	Warning
Message	Fixing System Parameters LB \$SHORT1	
Description	All fields were initialized to defaults.	
Possible Solutions	Verify all settings for accuracy. This was most likely the result of a firmware upgrade and is most likely normal. If this was an intentional action by the user, no other action is required. If this alarm occurred outside of that condition, please contact an Entegris customer representative for more information.	

Alarm 301	Fixing System Names	Warning
Message	Fixing System Names LB \$SHORT1	
Description	All fields were initialized to defaults.	
Possible Solutions	Verify all settings for accuracy. This was most likely the result of a firmware upgrade and is most likely normal. If this was an intentional action by the user, no other action is required. If this alarm occurred outside of that condition, please contact an Entegris customer representative for more information.	

Alarm 302	Fixing Firmware information	Warning
Message	Fixing Firmware Info LB \$SHORT1	
Description	All fields were initialized to defaults.	
Possible Solutions	Verify all settings for accuracy. This was most likely the result of a firmware upgrade and is most likely normal. If this was an intentional action by the user, no other action is required. If this alarm occurred outside of that condition, please contact an Entegris customer representative for more information.	

Alarm 303	Fixing Concentration Calibration	Warning
Message	Fixing Concentration Calibration LB \$SHORT1	
Description	All fields were initialized to defaults.	
Possible Solutions	Verify all settings for accuracy. This was most likely the result of a firmware upgrade and is most likely normal. If this was an intentional action by the user, no other action is required. If this alarm occurred outside of that condition, please contact an Entegris customer representative for more information.	

Alarm 304	Fixing Serial Numbers	Warning
Message	Fixing Serial Numbers LB \$SHORT1	
Description	All fields were initialized to defaults.	
Possible Solutions	Verify all settings for accuracy. This was most likely the result of a firmware upgrade and is most likely normal. If this was an intentional action by the user, no other action is required. If this alarm occurred outside of that condition, please contact an Entegris customer representative for more information.	

Alarm 306	Fixing engineering parameters information	Warning
Message	Fixing Engineering Parameters info LB \$SHORT1	
Description	All fields were initialized to defaults.	
Possible Solutions	Verify all settings for accuracy. This was most likely the result of a firmware upgrade and is most likely normal. If this was an intentional action by the user, no other action is required. If this alarm occurred outside of that condition, please contact an Entegris customer representative for more information.	

Alarm 308	Fixing RI TempComp Calibration	Warning
Message	Fixing RITempComp calibration LB \$SHORT1	
Description	All fields were initialized to defaults.	
Possible Solutions	Verify all settings for accuracy. This was most likely the result of a firmware upgrade and is most likely normal. If this was an intentional action by the user, no other action is required. If this alarm occurred outside of that condition, please contact an Entegris customer representative for more information.	

Alarm 309	Fixing Sensor Calibration	Warning
Message	Fixing Sensor Calibration parameters LB \$SHORT1	
Description	All fields were initialized to defaults.	
Possible Solutions	Verify all settings for accuracy. This was most likely the result of a firmware upgrade and is most likely normal. If this was an intentional action by the user, no other action is required. If this alarm occurred outside of that condition, please contact an Entegris customer representative for more information.	

Alarm 310	Fixing Sensor Serial Numbers	Warning
Message	Fixing Sensor Serial Numbers LB \$SHORT1	
Description	All fields were initialized to defaults.	
Possible Solutions	Verify all settings for accuracy. This was most likely the result of a firmware upgrade and is most likely normal. If this was an intentional action by the user, no other action is required. If this alarm occurred outside of that condition, please contact an Entegris customer representative for more information.	

Alarm 311	Fixing Serial Numbers	Warning
Message	Fixing Test Information LB \$SHORT1	
Description	All fields were initialized to defaults.	
Possible Solutions	Verify all settings for accuracy. This was most likely the result of a firmware upgrade and is most likely normal. If this was an intentional action by the user, no other action is required. If this alarm occurred outside of that condition, please contact an Entegris customer representative for more information.	

Alarm 312	Fixing Model Strings	Warning
Message	Fixing Model Strings LB \$SHORT1	
Description	All fields were initialized to defaults.	
Possible Solutions	Verify all settings for accuracy. This was most likely the result of a firmware upgrade and is most likely normal. If this was an intentional action by the user, no other action is required. If this alarm occurred outside of that condition, please contact an Entegris customer representative for more information.	

Alarm 313	Fixing Analog Parameters	Warning
Message	Fixing Analog Parameters LB \$SHORT1	
Description	All fields were initialized to defaults.	
Possible Solutions	Verify all settings for accuracy. This was most likely the result of a firmware upgrade and is most likely normal. If this was an intentional action by the user, no other action is required. If this alarm occurred outside of that condition, please contact an Entegris customer representative for more information.	

Alarm 600	Trigger Held	Error
Message	Trigger held active	
Description	Trigger was already active when system reached ready state.	
Possible Solutions	Possible trigger line broken or connection.	

Alarm 601	Trigger while Busy	Error
Message	A trigger line was asserted while the system was not ready	
Description	A digital input was triggered while system was busy.	
Possible Solutions	Input trigger held active while system was busy.	

Alarm 625	Saved Cycle Reference	Info
Message	Cycle reference saved for Recipe \$SHORT1	
Description	A new reference profile was saved.	
Possible Solutions		

Alarm 626	Counters reset	Info
Message	Counter \$LONG was reset (0=A, 1=B)	
Description	The resettable counter was reset.	
Possible Solutions		

Alarm 650	Sensor Disconnect	Critical
Message	Refractive index sensor not connected	
Description	The refractive index sensor is not responding. The sensor may be malfunctioning or has become disconnected.	
Possible Solutions	Confirm the unit does not have signs of damage. If problem continues, call an Entegris representative for more information.	

Alarm 651	Sensor Unresponsive	Critical
Message	The refractive index sensor memory is not functioning	
Description	Memory on the sensor not responding correctly.	
Possible Solutions	Confirm the unit does not have signs of damage. If problem continues, call an Entegris representative for more information.	

Alarm 652	Sensor Busy Line	Critical
Message	The refractive index sensor busy line is not functioning	
Description	Busy line from sensor not responding correctly.	
Possible Solutions	Confirm the unit does not have signs of damage. If problem continues, call an Entegris representative for more information.	

Alarm 653	Air Reference Error	Critical
Message	The refractive index sensor requires Sensor Initialization	
Description	The refractive index sensor requires Sensor Initialization.	
Possible Solutions	Execute the Sensor Initialization command.	

Alarm 654	Invalid RI Calibration	Critical
Message	The refractive index sensor requires calibration	
Description	The refractive index sensor requires calibration.	
Possible Solutions	Try restoring factory configuration.	

Alarm 655	Sensor Error Window	Critical
Message	The refractive index sensor cannot obtain valid sensor temperature measurement	
Description	The sensor has stopped measuring valid sensor temperature, it may have open or short circuited.	
Possible Solutions	Clear alarms and try again. Attempt power cycling the unit.	

Alarm 656	Sensor Error PCB	Critical
Message	The refractive index sensor cannot obtain valid sensor temperature measurement	
Description	The sensor has stopped measuring valid sensor temperature, it may have open or short circuited.	
Possible Solutions	Clear alarms and try again. Attempt power cycling the unit.	

Alarm 657	Sensor Error Potting	Critical
Message	The refractive index sensor cannot obtain valid sensor temperature measurement	
Description	The sensor has stopped measuring valid sensor temperature, it may have open or short circuited.	
Possible Solutions	Clear alarms and try again. Attempt power cycling the unit.	

Alarm 675	Dark Reading Error	Warning
Message	Background light in dark read is too high for sensor to obtain valid measurement	
Description	The background light is too high for the sensor to read properly. Please reduce background light and try again.	
Possible Solutions	Reduce light exposed to GV148 sensor.	

Alarm 676	Dark Reading Error Automatically Cleared	Warning
Message	Background light in dark read has been sufficiently reduced for sensor to resume obtaining valid measurements	
Description	The background light has been sufficiently reduced for sensor to resume obtaining valid measurements, no action is required.	
Possible Solutions		

Alarm 677	Sensor in Air	Warning
Message	The sensor does not have sufficient chemistry to obtain valid measurement	
Description	The sensor may be exposed to air, ensure chemistry is sufficiently being supplied to sensor.	
Possible Solutions	Make sure chemistry is applied to sensor.	

Alarm 678	Sensor in Air Automatically Cleared	Warning
Message	The sensor is now being supplied with sufficient chemistry for the sensor to resume obtaining valid measurements	
Description	Sufficient chemistry is now being supplied for the sensor to resume obtaining valid measurements, no action is required.	
Possible Solutions		

Alarm 679	Sensor Temperature Measurement Error	Warning
Message	The sensor fluid temperature measurement is too extreme to make a valid measurement	
Description	Extreme or invalid temperatures are being measured. Please ensure sensor is not in extreme environment, a temperature rezero may be required.	
Possible Solutions	Reduce sensor temperature, attempt a temperature rezero.	

Alarm 680	Sensor Temperature Measurement Error	Warning
Message	The sensor fluid temperature measurement is now within normal limitations required for valid measurement	
Description	The sensor fluid temperature measurement is now within normal limitations required for valid measurement, no action is required.	
Possible Solutions		

Alarm 681	Pixel Calculation Error	Warning
Message	The sensor cannot obtain a valid measurement	
Description	The sensor cannot obtain a valid measurement.	
Possible Solutions	Power cycle unit and try again.	

Alarm 682	Pixel Calculation Error Automatically Cleared	Warning
Message	The sensor has resumed obtaining valid measurements	
Description	The sensor has resumed obtaining valid measurements, no action is required.	
Possible Solutions		

Alarm 683	Dark Reading Error	Warning
Message	Background light in light read is too high for sensor to obtain valid measurement	
Description	The background light is too high for the sensor to read properly. Please reduce background light and try again.	
Possible Solutions	Reduce light exposed to GV148 sensor.	

Alarm 684	Dark Reading Error Automatically Cleared	Warning
Message	Background light in light read has been sufficiently reduced for sensor to resume obtaining valid measurements	
Description	The background light has been sufficiently reduced for sensor to resume obtaining valid measurements, no action is required.	
Possible Solutions		

Alarm 685	Pixel Position Threshold Error	Warning
Message	The sensor cannot obtain a valid measurement, the pixel edge detected is = \$USHORT0	
Description	The sensor cannot obtain a valid measurement. The chemistry applied to the sensor is measuring at the edge of it's capability.	
Possible Solutions	Adjust refractive index of chemistry applied to sensor.	

Alarm 686	Pixel Position Error Automatically Cleared	Warning
Message	The sensor has resumed obtaining valid measurements	
Description	The sensor has resumed obtaining valid measurements, no action is required.	
Possible Solutions		

Alarm 687	Calibaration Table Bounds Automatically Cleared Warning
Message	The pixel position is outside the range of the sensor callibration table
Description	The pixel position is outside the range of the sensor callibration table. Check for material on sensor.
Possible Solutions	

Alarm 700	Module Memory Corrupt	Error
Message	The interface module is not responding	
Description	The interface module is not responding correctly.	
Possible Solutions	Power cycle unit and try again.	

Alarm 725	Sensor Initialization Start	Info
Message	Sensor Initialization (LED + Air Reference) has started	
Description	Sensor Initialization (LED + Air Reference) has started.	
Possible Solutions		

Alarm 726	Sensor Initialization	Info
Message	Air Reference has been updated and sensor LED has been successfully initialized with Intensity = \$CPERC1	
Description	Sensor initialization (LED + Air Reference) has successfully completed.	
Possible Solutions		

Alarm 727	Sensor Initialization Failed Air Ref	Error
Message	Sensor initialization failed due to an invalid air reference obtained	
Description	Sensor initialization failed due to an invalid air reference obtained.	
Possible Solutions	Retry sensor initialization	

Alarm 728	Sensor Initialization Failed Dark	Error
Message	Sensor initialization failed due to too much ambient light	
Description	Sensor initialization failed due to too much ambient light.	
Possible Solutions	Remove ambient light on GV148 and retry sensor intialization	

Alarm 729	Sensor Initialization Failed Write	Error
Message	Sensor initialization failed due to write to memory	
Description	Sensor initialization failed because the collected information could not written to memory correctly.	
Possible Solutions	Power cycle unit and try again.	

Alarm 730	Sensor Initialization Failed Max Current	Error
Message	Sensor initialization failed due to the sensor reaching it's maximum recommended current = \$CPERC1	
Description	Sensor initialization failed because the LED on the sensor has exceeded recommended maximum current specification.	
Possible Solutions	Retry sensor initialization	

Alarm 731	Sensor Initialization Failed Timeout	Error
Message	Sensor initialization failed due to timeout	
Description	Sensor initialization failed because the operation took too long to complete and terminated before it finished.	
Possible Solutions	Retry sensor initialization	

Alarm 732	Sensor Initialization Failed Light	Error
Message	Sensor initialization failed due to too much ambient light	
Description	Sensor initialization failed due to too much ambient light.	
Possible Solutions	Remove ambient light on GV148 and retry sensor initialization	

Alarm 733	Sensor Initialization Start	Info
Message	Sensor Initialization (LED only) has started	
Description	Sensor Initialization (LED only) has started.	
Possible Solutions		

Alarm 734	Sensor LED Initialization	Info
Message	Sensor LED has been successfully initialized with Intensity = \$CPERC1	
Description	Sensor initialization (LED only) has successfully completed.	
Possible Solutions		

Alarm 750	Temperature Rezero Cleared	Info
Message	Temperature rezero has been cleared	
Description	Temperature rezero has been cleared	
Possible Solutions		

Alarm 751	Refractive Index Rezero Cleared	Info
Message	Refractive Index rezero has been cleared	
Description	Refractive Index rezero has been cleared	
Possible Solutions		

Alarm 800	Factory Configuration Saved	Info
Message	The Factory Configuration has been saved	
Description	The Factory Configuration has been saved by the factory	
Possible Solutions		

Alarm 801	Factory Configuration Restored	Info
Message	The Factory Configuration has been restored	
Description	The user has restored the unit to factory settings.	
Possible Solutions		

Alarm 802	Factory Restore Error	Error
Message	Factory Restore failed do to bad CRC, No CONFIG saved?	
Description	Factory Restore failed do to bad CRC, No CONFIG saved?	
Possible Solutions	Perform a Factory Save.	

Alarm 803	Factory Restore Error	Error
Message	Factory Restore failed do to old version	
Description	Factory Restore Image is from a newer version of firmware than the current firmware	
Possible Solutions	Install newer version of firmware	

Alarm 804	Factory Restore Warning	Warning
Message	Factory Restore partially failed. One or more structures were not restored.	
Description	Factory Restore partially failed. One or more structures were not restored.	
Possible Solutions	Power cycle unit and try again.	

Alarm 805	Factory Save Warning	Error
Message	The Factory Configuration save has failed.	
Description	Failed to save the Factory Configuration data to NV ram	
Possible Solutions	Power cycle unit and try again.	

Alarm 825	40C Fluid Temperature Warning	Info
Message	The UUT Fluid Temperature has reached a temperature above the maximum recommended operating temperature (\$CTEMP1)	
Description	The UUT Fluid Temperature has reached a temperature above the maximum recommended operating temperature.	
Possible Solutions	Reduce fluid temperature.	

Alarm 826	40C Fluid Temperature Warning Cleared	Info
Message	The UUT Fluid Temperature has resumed operation within temperature specification (\$CTEMP1)	
Description	The UUT Fluid Temperature has resumed operation within temperature specification.	
Possible Solutions		

Alarm 827	20C Fluid Temperature Warning	Info
Message	The UUT Fluid Temperature has reached a temperature below the minimum recommended operating temperature (\$CTEMP1)	
Description	The UUT Fluid Temperature has reached a temperature below the minimum recommended operating temperature.	
Possible Solutions	Increase fluid temperature.	

Alarm 828	20C Fluid Temperature Warning Cleared	Info
Message	The UUT Fluid Temperature has resumed operation within temperature specification (\$CTEMP1)	
Description	The UUT Fluid Temperature has resumed operation within temperature specification.	
Possible Solutions		

Alarm 1130	Refractive Index Rezero Test Started	Info
Message	Self Test Started: Refractive Index Rezero	
Description	Self Test Started: Refractive Index Rezero	
Possible Solutions		

Alarm 1131	Refractive Index Rezero Test Passed	Info
Message	Self Test Passed: Refractive Index Rezero	
Description	Self Test Passed: Refractive Index Rezero	
Possible Solutions		

Alarm 1132	Refractive Index Rezero Test Failed	Info
Message	Self Test Failed: Refractive Index Rezero Not Accurate Enough	
Description	Self Test Failed: Refractive Index Rezero Not Accurate Enough	
Possible Solutions		

Alarm 1133	Refractive Index Rezero Test Incomplete	Info
Message	Self Test Incomplete: Refractive Index Rezero Error	
Description	Self Test Incomplete: Refractive Index Rezero Error	
Possible Solutions		

Alarm 1134	Refractive Index Rezero Test Results A	Info
Message	Self Test Input: Target RI = \$SRI	
Description	Self Test Results: Target RI = \$SRI	
Possible Solutions		

Alarm 1135	Refractive Index Rezero Test Results B	Info
Message	Self Test Results: Calculated RI Offset = \$SRI	
Description	Self Test Results: Calculated RI Offset = \$SRI	
Possible Solutions		

Alarm 1136	Refractive Index Rezero Test Results C	Info
Message	Self Test Results: Calculated Offset from Target RI = \$SRI	
Description	Self Test Results: Calculated Offset from Target RI = \$SRI	
Possible Solutions		

Alarm 1137	Refractive Index Rezero Test Results D	Info
Message	Self Test Results: Calculated Stddev during selftest = \$SRI	
Description	Self Test Results: Calculated Stddev during selftest = \$SRI	
Possible Solutions		

Alarm 1138	Refractive Index Rezero Test STDEV	Info
Message	Self Test Failed: Refractive Index not stable enough (\$SRI)	
Description	Self Test Failed: Refractive Index not stable enough (\$SRI)	
Possible Solutions		

Alarm 1170	Analog Outputs Test Started	Info
Message	Self Test Started: Analog Outputs	
Description	Self Test Started: Analog Outputs	
Possible Solutions		

Alarm 1171	Analog Outputs Test Passed	Info
Message	Self Test Passed: Analog Outputs	
Description	Self Test Passed: Analog Outputs	
Possible Solutions		

Alarm 1172	Analog Outputs Test Failed	Info
Message	Self Test Failed: Analog Outputs	
Description	Self Test Failed: Analog Outputs	
Possible Solutions		

Alarm 1173	Analog Outputs Test Incomplete	Info
Message	Self Test Incomplete: Analog Outputs	
Description	Self Test Incomplete: Analog Outputs	
Possible Solutions		

Alarm 1174	Analog Output Override Concentration	Info
Message	Self Test Results: Concentration Analog Output Overridden = \$CTEMP1	
Description	Self Test Results: Concentration Analog Output Overridden = \$CTEMP1	
Possible Solutions		

Alarm 1175	Analog Output Override Temperature	Info
Message	Self Test Results: Temperature Analog Output Overridden = \$CTEMP1	
Description	Self Test Results: Temperature Analog Output Overridden = \$CTEMP1	
Possible Solutions		

Alarm 1176	Analog Output Override RI	Info
Message	Self Test Results: Refractive Index Analog Output Overridden = \$CTEMP1	
Description	Self Test Results: Refractive Index Analog Output Overridden = \$CTEMP1	
Possible Solutions		

