



## Entegris GV148 SVIDs

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### **DESCRIPTION:**

This document describes the SVIDs for the GV148 Concentration Monitor System.

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

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## SVIDs

SVID	Size	Type	Data	Description
10	24	STRING	Version.Model[24]	Model Name
11	48	STRING	Version.Version[48]	Firmware Major Version
12	24	STRING	SystemNames.CustomerName[24]	Customer Name
13	24	STRING	SystemNames.FabName[24]	Fab Name
14	24	STRING	SystemNames.ToolName[24]	Tool Name
17	24	STRING	SystemNames.ChemicalName[24]	Chemical name
18	24	STRING	SystemNames.SystemName[24]	System Name
19	24	STRING	SystemNames.FluidName[24]	Fluid Name/type
21	24	STRING	CycleInfo.JobInfo[24]	Job Information
100	24	STRING	SerialNumbers.System[24]	System Serial Number
101	24	STRING	SensorSerialNumber.Sensor[24]	Sensor Serial Number
257	2	INT16	RtStatus.Status	System Status
512	4	FLOAT	SensorStatus.RefractiveIndex	Refractive Index
513	4	FLOAT	SensorStatus.Concentration	Concentration Value
514	4	FLOAT	SensorStatus.Fluid_Temperature	SR Sensor Fluid Temperature
515	4	FLOAT	SensorStatus .Uncal_RefractiveIndex	Uncalibrated Refractive Index
525	4	FLOAT	CalibrationTable .Concn_Percent0	Concentration [0]
526	4	FLOAT	CalibrationTable.RI_nD0	RI values (nD) [0]
527	4	FLOAT	CalibrationTable .Concn_Percent1	Concentration [1]
528	4	FLOAT	CalibrationTable.RI_nD1	RI values (nD) [1]
529	4	FLOAT	CalibrationTable .Concn_Percent2	Concentration [2]
530	4	FLOAT	CalibrationTable.RI_nD2	RI values (nD) [2]
531	4	FLOAT	CalibrationTable .Concn_Percent3	Concentration [3]
532	4	FLOAT	CalibrationTable.RI_nD3	RI values (nD) [3]
533	4	FLOAT	CalibrationTable .Concn_Percent4	Concentration [4]
534	4	FLOAT	CalibrationTable.RI_nD4	RI values (nD) [4]
535	4	FLOAT	CalibrationTable .Concn_Percent5	Concentration [5]

536	4	FLOAT	CalibrationTable.RI_nD5	RI values (nD) [5]
537	4	FLOAT	CalibrationTable .Concn_Percent6	Concentration [6]
538	4	FLOAT	CalibrationTable.RI_nD6	RI values (nD) [6]
539	4	FLOAT	CalibrationTable .Concn_Percent7	Concentration [7]
540	4	FLOAT	CalibrationTable.RI_nD7	RI values (nD) [7]
541	4	FLOAT	CalibrationTable .Concn_Percent8	Concentration [8]
542	4	FLOAT	CalibrationTable.RI_nD8	RI values (nD) [8]
543	4	FLOAT	CalibrationTable .Concn_Percent9	Concentration [9]
544	4	FLOAT	CalibrationTable.RI_nD9	RI values (nD) [9]
545	4	FLOAT	CalibrationTable .Concn_Percent10	Concentration [10]
546	4	FLOAT	CalibrationTable.RI_nD10	RI values (nD) [10]
547	4	FLOAT	CalibrationTable .Concn_Percent11	Concentration [11]
548	4	FLOAT	CalibrationTable.RI_nD11	RI values (nD) [11]
549	4	FLOAT	CalibrationTable .Concn_Percent12	Concentration [12]
550	4	FLOAT	CalibrationTable.RI_nD12	RI values (nD) [12]
551	4	FLOAT	CalibrationTable .Concn_Percent13	Concentration [13]
552	4	FLOAT	CalibrationTable.RI_nD13	RI values (nD) [13]
553	4	FLOAT	CalibrationTable .Concn_Percent14	Concentration [14]
554	4	FLOAT	CalibrationTable.RI_nD14	RI values (nD) [14]
555	4	FLOAT	CalibrationTable .Concn_Percent15	Concentration [15]
556	4	FLOAT	CalibrationTable.RI_nD15	RI values (nD) [15]
557	4	FLOAT	CalibrationTable .Concn_Percent16	Concentration [16]
558	4	FLOAT	CalibrationTable.RI_nD16	RI values (nD) [16]
559	4	FLOAT	CalibrationTable .Concn_Percent17	Concentration [17]
560	4	FLOAT	CalibrationTable.RI_nD17	RI values (nD) [17]
561	4	FLOAT	CalibrationTable .Concn_Percent18	Concentration [18]

562	4	FLOAT	CalibrationTable.RI_nD18	RI values (nD) [18]
563	4	FLOAT	CalibrationTable .Concn_Percent19	Concentration [19]
564	4	FLOAT	CalibrationTable.RI_nD19	RI values (nD) [19]
565	4	FLOAT	CalibrationTable .Concn_Percent20	Concentration [20]
566	4	FLOAT	CalibrationTable.RI_nD20	RI values (nD) [20]
567	4	FLOAT	CalibrationTable .Concn_Percent21	Concentration [21]
568	4	FLOAT	CalibrationTable.RI_nD21	RI values (nD) [21]
569	4	FLOAT	CalibrationTable .Concn_Percent22	Concentration [22]
570	4	FLOAT	CalibrationTable.RI_nD22	RI values (nD) [22]
571	4	FLOAT	CalibrationTable .Concn_Percent23	Concentration [23]
572	4	FLOAT	CalibrationTable.RI_nD23	RI values (nD) [23]
573	4	FLOAT	CalibrationTable .Concn_Percent24	Concentration [24]
574	4	FLOAT	CalibrationTable.RI_nD24	RI values (nD) [24]
575	4	FLOAT	CalibrationTable .Concn_Percent25	Concentration [25]
576	4	FLOAT	CalibrationTable.RI_nD25	RI values (nD) [25]
577	4	FLOAT	CalibrationTable .Concn_Percent26	Concentration [26]
578	4	FLOAT	CalibrationTable.RI_nD26	RI values (nD) [26]
579	4	FLOAT	CalibrationTable .Concn_Percent27	Concentration [27]
580	4	FLOAT	CalibrationTable.RI_nD27	RI values (nD) [27]
581	4	FLOAT	CalibrationTable .Concn_Percent28	Concentration [28]
582	4	FLOAT	CalibrationTable.RI_nD28	RI values (nD) [28]
583	4	FLOAT	CalibrationTable .Concn_Percent29	Concentration [29]
584	4	FLOAT	CalibrationTable.RI_nD29	RI values (nD) [29]
769	2	UINT16	FirmwareInfo.ProductQualifier	Qualifer for ProductCode to be valid
770	2	UINT16	FirmwareInfo.Comms_Version	Communications protocol version
771	2	UINT16	FirmwareInfo.MajorVersion	Major Version Number
772	2	UINT16	FirmwareInfo.ModuleType	Interface Module Type
773	2	UINT16	FirmwareInfo.MinorVersion	Firmware Minor Version

774	2	UINT16	FirmwareInfo.ProductCode	Product ID Code
799	2	UINT16	RtStatus.CriticalErrors	counts Critical System Errors after they are logged
800	2	UINT16	RtStatus.Errors	counts System Errors after they are logged
801	2	UINT16	RtStatus.Warnings	counts System Warnings after they are logged
802	2	UINT16	RtStatus.Infos	counts System infos after they are logged
803	2	UINT16	RtStatus.TotalAlarms	counts total uncleared alarms after they are logged
804	2	UINT16	SystemStatus.CurrentRecipe	Current recipe being run
806	2	UINT16	Module.Address	address from module
807	2	UINT16	Module.TrackAddress	module specific track address
847	2	UINT16	CycleInfo.ReferenceNum	Reference number
848	2	UINT16	CycleInfo.SlotID	Slot ID
849	2	UINT16	ConcnCalibration.Algorithm	Curve Fit Algorithm
1025	4	ULONG	TimeNow.Time	UTC seconds from 1 Jan 1970
1026	4	ULONG	CycleCounters.CycleCounts	Total Cycles
1027	4	ULONG	CycleCounters.PowerCycles	Total Power Cycles
1033	4	ULONG	CycleCounters .CycleCounts_reset_A	Resettable A Cycles
1034	4	ULONG	CycleCounters .PowerCycles_reset_A	Resettable A Power Cycles
1040	4	ULONG	CycleCounters .CycleCounts_reset_B	Resettable B Cycles
1041	4	ULONG	CycleCounters .PowerCycles_reset_B	Resettable B Power Cycles
1048	4	ULONG	RtStatus.NewestAlarmNum	Number of newest alarm
1049	4	ULONG	RtStatus.NewestRecordNum	Number of newest record
1050	4	ULONG	Module.UpTime	Time for power up
1056	4	ULONG	RtStatus.LastCycle	Cycle Num of last completed
1057	4	ULONG	RtStatus.LastClearedRecord	# of the last cleared record
1058	4	ULONG	RtStatus.ProfileCycle	Most recent cycle
1069	4	ULONG	CycleInfo.Cycle	Cycle Number
1070	4	ULONG	CycleInfo.ReferenceCycle	Reference Cycle Number
1071	4	ULONG	CycleInfo.Time	Time of Cycle Start (trigger)
1536	8	INT64	ConcnCalibration .User_Intercept	Intercept

1537	8	INT64	ConcnCalibration .User_FirstOrder	1st Order Coefficient
1538	8	INT64	ConcnCalibration .User_SecondOrder	2nd Order Coefficient
1539	8	INT64	ConcnCalibration .User_ThirdOrder	3rd Order Coefficient
1540	8	INT64	ConcnCalibration .ConcnRI_Intercept	Intercept
1541	8	INT64	ConcnCalibration .ConcnRI_FirstOrder	1st Order Coefficient
1542	8	INT64	ConcnCalibration .ConcnRI_SecondOrder	2nd Order Coefficient
1543	8	INT64	ConcnCalibration .ConcnRI_ThirdOrder	3rd Order Coefficient

## Appendix

### SVIDs

The SVID command allows the system to be queried for specific data values in command. A list of System Variable ID values are sent as UINT16 data in the command. The command will return the requested data in the same order as it was requested. Note that different data types have different sizes (in bytes) as defined below:

'INT16' : 2  
'UINT16' : 2,  
'INT64' : 8,  
'LONG' : 4,  
'ULONG' : 4,  
'FLOAT' : 4, IEEE 32 bit floating point  
'STRING' : 2 bytes (USHORT) is the size of the returned string in bytes followed the string of bytes.

The actual SVID values may change for different firmware revisions so the list is published with new firmware versions.