

Diasensor 2000 Error Codes
Miscellaneous

1 General Description

This specification explains the Error Codes displayed on the Diasensor 2000 LCD Display.

2 References

None

3 Revision Record

Revision.	Date	Status	Description
0	11 - 22 - 1999	Preliminary	Initial document describing Data formats used for D2000 software development
1	3 - 03 - 2000		Redefined #29 MachData(186) error group 70 to add an error code for a bad user card serial number. Added error codes 7-22 to #31 Gdup
2	7 - 14 - 2000		Added sub codes for ERR_COMTIMEOUT, ERR_INTERRUPT & ERR_TELEMED
3	5-15-2001		Added codes 23 and 24 for ERR_GDUP #31

Value	MAJOR - Module ID Codes (xx portion of a reported error)	Value	MINOR - Error ID Codes (yy portion of a reported error)	Value	STATUS (a status code is returned by the function in question. the error reported may or may not be the same)
1	ERR_GENERAL	0	MEMORY ERROR		
		1	UNKNOWN COMMAND		
		2	UNKNOWN STRUCTURE		
		3	NVRAM BATTERY DEAD		
		4	NVRAM REGS CORRUPTED		
		5	CHECK_SUM_ERROR		In some routines pushing start gives an additional error code identifying the module detecting the error.
2	ERR_ADC				
3	ERR_ARMTRAY	0	ARM_OK		
		-1	ARM_BAD_PARAM		
		-2	ARM_TIMEOUT		
		>0	RESIDUAL COUNTS NOT EXECUTED		
4	ERR_BCBSCRN	0	BITMAP_OK		
		1	BITMAP_MEMORY_ERROR		
		2	BITMAP_NOT_BCB		
		3	BITMAP_NOT_BMP		
		4	BITMAP_NOT_MONO		
5	ERR_BEEPER				
6	ERR_CALMODE				
7	ERR_CHOPPER			1	CHOPPER LOCKED
8	ERR_COMTIMEOUT	0-99	Spectrum Send Timeout	0	Timeout in Test Mode
9	ERR_DAQMGR	0	DAQ_OK		/*ERRORS 0 TO 6 OVERLAID WITH Gdup GU errors*/
		1	DAQ_ARM_ERROR		
		2	DAQ_DSP_ERROR		
		3	DAQ_MEMORY_ERROR		
		4	DAQ_SKIN_LEVEL_ERROR		
		5	DAQ_RAM_ERROR		
		6	DAQ_USER_TIMEOUT		
10	ERR_ECMDPROC				
11	ERR_CMDQUE				
12	ERR_DATAQUE				
13	ERR_DATETIME				

Value	MAJOR - Module ID Codes (xx portion of a reported error)	Value	MINOR - Error ID Codes (yy portion of a reported error)	Value	STATUS (a status code is returned by the function in question, the error reported may or may not be the same)
			DSP Status		DSP Responses
14	ERR_DSP	0	DSP_IDLE	0xff	TASK0_RESPONSE
		1	DSP_BUSY	0xfe	TASK1_RESPONSE
		2	DSP_OK	0xfd	TASK2_RESPONSE
		3	DSP_NOT_LOADED	0xfc	TASK3_RESPONSE
		4	DSP_BAD_PARAMETER	0xfb	TASK4_RESPONSE
		5	DSP_ERROR_TASK0		
		6	DSP_ERROR_TASK1		
		7	DSP_ERROR_TASK2		
		8	DSP_ERROR_TASK3		
		9	DSP_ERROR_TASK4		
		10	DSP_HEADER_ERROR		
		11	DSP_NOT_READY		
		12	DSP_SPURIOUS_INTR		
			Glucose Measurement Status		
15	ERR_GLUMEAS				
		0	GM_OK		
		3	GM_MEMORY_ERROR		
		7	GM_NULL_POINTER_ERROR		
		8	GM_LIBRARY_INIT_ERROR		
		9	GM_PCMCIA_ERASE_ERROR		
		10	GM_PCMCIA_READ_ERROR		
		11	GM_PCMCIA_WRITE_ERROR		
		12	GM_CONTROL_CHECK_ERROR		Separates hardware/ non-recoverable errors from criteria check errors.
		13	GM_GLUCOSE_RANGE_HI_ERROR		Readings with error codes equal to and greater get stored in addition to error code zero.
		14	GM_GLUCOSE_RANGE_LO_ERROR		
		15	GM_LACK_OF_FIT_ERROR		
		16	GM_STDEV_ERROR		
		17	GM_QM_CHECK_ERROR		
		18	GM_ALERT_GLUCOSE_HIGH		
		19	GM_ALERT_GLUCOSE_LOW		
		20	GM_ALERT_DEV_GLUCOSE_HIGH		
		21	GM_ALERT_DEV_GLUCOSE_LOW		
		22	GM_QM_INIT_READING		last criteria check error

Value	MAJOR - Module ID Codes (xx portion of a reported error)	Value	MINOR - Error ID Codes (yy portion of a reported error)	Value	STATUS (a status code is returned by the function in question. the error reported may or may not be the same)
16	ERR_INTERRUPT	0	Divide Error		
		1	Single Step		
		2	Floating Point		
		3	Break Point		
		4	Overflow		
		5	Array bounds		
		6	Unused Opcode		
		7	ESC Opcode		
		8	Timer 0		
		9	Reserved		
		10	DMA 0		
		11	DMA 1		
		12	INT 0		
		13	INT 1		
		14	INT 2		
		15	INT 3 / Watch Dog		
		16	Floating Point		
		17	Reserved		
		18	TIMER 1		
		19	TIMER 2		
		20 - 31	Reserved		
17	ERR_KEYPAD				
18	ERR_LCD				
19	ERR_MEASMODE				
20	ERR_PCMCIA	0	PCMCIA SUCCESS		
		1	PCMCIA NOT PRESENT		
		2	PCMCIA ERASE ERROR		
		3	PCMCIA READ ERROR		
		4	PCMCIA WRITE ERROR		
21	ERR_RAM	0	RAM OK	0x00	enum : RAM Position RAM UNKNOWN = 0x00
		1	RAM BAD PARAM	0x04	RAM REFERENCE
		2	RAM TIMEOUT	0x08	RAM SKIN
				0x10	RAM CONTROL
22	ERR_RTC				
23	ERR_SENSORS				
24	ERR_SHUTTER				

Value	MAJOR - Module ID Codes (xx portion of a reported error)	Value	MINOR - Error ID Codes (yy portion of a reported error)	Value	STATUS (a status code is returned by the function in question. the error reported may or may not be the same)
25	ERR_SMSG		internal codes from smsg_util.h -->		msg_errors[] = Bit 0 signals data received; not an error.
		1	UART OVERRUN 0x02	1	UART OVERRUN
		2	PARITY ERROR 0x04	2	PARITY ERROR
		3	FRAMING ERROR 0x08	3	FRAMING ERROR
		4	BREAK DETECT 0x10	4	BREAK DETECT
		5	SMSG NOT INITIALIZED 0x20	5	SMSG NOT INITIALIZED
		6	TIMEOUT 0x40	6	TIMEOUT
		7	INPUT OVERRUN 0x80	7	INPUT OVERRUN
		8	OUTPUT OVERRUN 0x100	8	OUTPUT OVERRUN
		9	UNEXPECTED CHARACTER 0x200	9	UNEXPECTED CHARACTER
		10	CHECKSUM ERROR 0x400	10	CHECKSUM ERROR
		11	INCOMING TOO LARGE 0x800	11	INCOMING TOO LARGE
		12	COM ERROR 0x1000	12	COM ERROR
		13	PARTNER BUSY 0x2000	13	PARTNER BUSY
		14	OUTGOING TOO LARGE 0x4000	14	OUTGOING TOO LARGE
		15	PARTNER NOT ACCEPTING 0x8000	15	PARTNER NOT ACCEPTING
		-1	NOTHING PENDING		
		0	IN PROGRESS		
		1	HEARTBEAT ACKNOWLEDGED		
		2	MESSAGE ACKNOWLEDGED		
26	ERR_WATCHDOG				
27	ERR_FLASH	0	FLASH SUCCESS		FLASH SUCCESS
		1	FLASH NOT PRESENT		FLASH NOT PRESENT
		2	FLASH ERROR		
		3	FLASH ERASE ERROR		
		4	FLASH WRITE ERROR		

Value	MAJOR - Module ID Codes (xx portion of a reported error)	Value	MINOR - Error ID Codes (yy portion of a reported error)	Value	STATUS (a status code is returned by the function in question. the error reported may or may not be the same)
28	ERR_FLASHTST	0	FLASH_present call		
		10	FLASH_sector_erase call		
		20	FLASH_write_data call (whole sector)		
		30	FLASH_read_data call (whole sector)		
		40	FLASH_read_data call (sector 0)		
		50	FLASH_read_data call (sector 1)		
		60	FLASH_write_data call (part of sector)		
		70	FLASH_read_data call (part of sector)		
		+	add the number above to the number below		
		0	FLASHTST_SUCESS		
		1	FLASHTST_NOT_PRESENT		
		2	FLASHTST_ERROR		
		3	FLASHTST_ERASE_ERROR		
		4	FLASHTST_WRITE_ERROR		
		5	FLASHTST_READ_ERROR		
		6	FLASHTST_FILE_OPEN_ERROR		
		7	FLASHTST_FILE_WRITE_ERROR		
		8	FLASHTST_MEMORY_ERROR		
29	ERR_MACHDATA	0	MD call to FLASH_present		
		10	MD call to FLASH_sector_erase		
		20	MD call to FLASH_write_data		
		30	MD call to FLASH_read_data		
		40	MD_FlashTst		
		50	MD_MachInit		
		60	MD_CheckUC		
		80	MD_Alloc		
		+	add the number above to the number below		
		0	MD_SUCESS		
		1	MD_NOT_PRESENT		
		2	MD_ERROR		
		3	MD_ERASE_ERROR		
		4	MD_WRITE_ERROR		
		5	MD_READ_ERROR		
		6	MD_MEMORY_ERROR		
		7	MD_MACH_VERSION_BAD		
		8	MD_186FLASH_EMPTY		
		9	MD_FIFTH_PATIENT		
		70	MD_CheckSER		
		+	add the number above to the number below		
		1	MD_SERIAL_NUM_BAD		
		2 - 9	See above list		

Value	MAJOR - Module ID Codes (xx portion of a reported error)	Value	MINOR - Error ID Codes (yy portion of a reported error)	Value	STATUS (a status code is returned by the function in question. the error reported may or may not be the same)
30	ERR_APPINIT	99	Pause at end of APPINIT (Only in debug mode)		
			Grand Diasensor Unification Program		
31	ERR_GDUP				
		0	GU_GOOD		/*ERRORS 0 TO 6 OVERLAID WITH DAQ Error*/
		1	GU_ARM_ERROR		
		2	GU_DSP_ERR		
		3	GU_MEMORY_ERR		
		4	GU_SKIN_LEVEL_ERR		
		5	GU_RAM_ERR		
		6	GU_USER_TIMEOUT		
		7	GM_NULL_POINTER_ERROR		
		8	GM_LIBRARY_INIT_ERROR		
		9	GM_PCMCIA_ERASE_ERROR		
		10	GM_PCMCIA_READ_ERROR		
		11	GM_PCMCIA_WRITE_ERROR		
		12	GM_CONTROL_CHECK_ERROR		first criteria check error
		13	GM_GLUCOSE_RANGE_HI_ERROR		
		14	GM_GLUCOSE_RANGE_LO_ERROR		
		15	GM_LACK_OF_FIT_ERROR		
		16	GM_STDEV_ERROR		
		17	GM_QM_CHECK_ERROR		
		18	GM_ALERT_GLUCOSE_HIGH		
		19	GM_ALERT_GLUCOSE_LOW		
		20	GM_ALERT_DEV_GLUCOSE_HIGH		
		21	GM_ALERT_DEV_GLUCOSE_LOW		
		22	GM_QM_INIT_READING		last criteria check error
		23	GU_CTRL_ERR_DATA_INSUF		control error- not enuf good sessions
		24	GU_CTRL_ERR_DATA_ADD		control error but good sitting
		25	GU_REF_RATIO_ERR		
		26	GU_MIN_DATA_FAIL		
		27	GU_INVALID_MODE		
		28	GU_DARK_SPEC_FAIL		
		29	GU_MIN_QM_PERIOD		
		30	GU_UC_READ_FAIL		
		31	GU_CC_CRC_FAIL		
		32	GU_HA_CRC_FAIL		
		33	GU_BC_CRC_FAIL		
		34	GU_NO_MODEM_SPACE		
		35	GU_PATIENT_HOLD		
		36	GU_SKIN_HEMO_LIMIT		
		37	GU_HC_RETRY		
		38	GU_HC_OUT_OF_RANGE		
Value	MAJOR - Module	Value	MINOR - Error ID Codes	Value	STATUS

	ID Codes (xx portion of a reported error)		(yy portion of a reported error)		(a status code is returned by the function in question, the error reported may or may not be the same)
31	ERR_GDUP contd.				
		39	GU_Q_PTR_ERR		
		40	GU_Q_EMPTY		
		41	GU_MINIMUM_SPECTRA_ERROR		
		42	GU_UNKNOWN_OBJECT		
		43	GU_PCMCIA_FULL		
		44	GU_FLASH_WRITE_ERR		
		45	GU_FLASH_READ_ERR		
		46	GU_FLASH_ERASE_ERR		
		47	GU_INCOR_SKIN_CNT		
		48	GU_CANCEL		
		49			
		50	GU_MM_STORE_FAIL		

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32	ERR_TELEMED		Low level telecommunications functions		
		0	TR_SUCCESS		
		1	TEL_OVERRUN		
		2	TEL_FRAMING		
		3	TEL_BREAK		UART break detected
		4	TEL_APPRXERR		app rx buffer overrun
		5	TEL_APPTXERR		app tx buffer overrun
		6	MODEM_NOT_AVAILABLE		
		7	MODEM_NO_CONNECT		
		8	ISP_NO_CONNECT		
		9	TR_CONNECT_ERR		
		10	TR_CONFIG_ERR		
		11	TR_PPP_ERR		
		12	TR_PPPAP_ERR		
		13	TR_PPPCHAP_ERR		
		14	TR_PPPOPT_ERR		
		15	TR_BIND_ERR		
		16	TR_SOCKET_ERR		
		17	TR_GATEWAY_ERR		
		18	TR_BAD_FUN		
		19	FTP_SEND_ERR		
		20	FTP_ERROR		
		21	FTP_SESSIONERR		
		22	FTP_LOGINERR		
		23	FTP_CONNECTERR		
		24	FTP_TYPEERR		
		25	FTP_CWDERR		
		26	FTP_QFITERR		
		27	FTP_QEMPTYERR		
		28	FTP_OBJERR		
		29	FTP_DIRERR		
		30	FTP_FLASHWRITE_ERR		
		31	FTP_RETR_ERR		
		32	FTP_DEL_ERR		
		33	SIO2_INIT_ERR		Modem/Modem card not responding

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33	ERR_TELCONCT		Connects to BICO: dials, connects, and handles ISP & BICO logons		
		0	CT_Control		
		10	CT_connect		
		20	CT_dataChk		
		30	CT_DateToFname		
		+	add the number above to the number below		
		0	CT_SUCESS		
		1	CT_ISP_LOGIN_FAIL		
		2	CT_BICO_LOGIN_FAIL		
		3	CT_ERASE_ERROR		
		4	CT_WRITE_ERROR		
		5	CT_READ_ERROR		
		6	CT_MEMORY_ERROR		
		7	CT_UPLOAD_TRIES_MAXED		
		8	CT_DNLOAD_TRIES_MAXED		
		9	CT_SECTOR0_ERASED		
		50	CT_SUCESS		
		51	CT_NOT_PRESENT		
		55	CT_READ_ERROR		
		56	CT_MEMORY_ERROR		
		59	CT_SECTOR0_ERASED		
		100	Indicates a Manual Telemed Operation was manually cancelled.		
34	ERR_UPLOAD		Handles telemedicine data transfers From Diasensor to BICO		
		00	UP_Control		
		+	add the number above to the number below		
		0	UP_SUCESS		
		1	UP_NOT_PRESENT		
		2	UP_GENERAL_ERROR		
		3	UP_ERASE_ERROR		
		4	UP_WRITE_ERROR		
		5	UP_READ_ERROR		
		6	UP_MEMORY_ERROR		
		7	UP_UPLOAD_TRIES_MAXED		
		8	UP_MDM_DIR_ERROR		
		13	UP_MDM_DATE_MISSING		
		14	UP_UPLOAD_FAIL		
		15	UP_UNEXPECTED_EODATA		

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35	ERR_DOWNLOAD		Handles telemedicine data transfers from BICO to Diasensor		
		00	DN Control		
		30	DN Machupdt		
		60	DN UserUpdt		
		+	add the number above to the number below		
		0	DN SUCESS		
		1	DN NOT PRESENT		
		2	DN GENERAL ERROR		
		3	DN ERASE ERROR		
		4	DN WRITE ERROR		
		5	DN READ ERROR		
		6	DN MEMORY ERROR		
		7	DN DNLOAD TRIES MAXED		
		8	DN MDM DIR ERROR		
		9	DN DELETE FILE ERROR		
		13	DN PATIENT NOT FOUND		
		14	DN_DOWNLOAD_FAIL		
		15	DN_UNEXPECTED_EODATA		
		16	DN_INVALID_TELE_UPDT		
36	ERR_FTP		Issues File Transfer Protocol commands to telecommunications		
		1	FTP_SEND_END_FILE		
		2	FTP_SEND_END_MEM		
		3	FTP_QDATA_FULL		

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37	ERR_UCUPDT		Handles telemedicine updates to user information		
		0	UU Control		
		10	UU_updateUC Update PCMCIA User Card		
		20	UU_updateMD Update 186Flash User Card data		
		+	add the number above to the number below		
		0	UU SUCCESS		
		1	UU NOT PRESENT		
		2	UU ERROR		
		3	UU ERASE ERROR		
		4	UU WRITE ERROR		
		5	UU READ ERROR		
		6	UU MEMORY ERROR		
		7	UU MACH VERSION BAD		
		8	UU CHECKSUM BAD		
		9	UU UPDATE FAILED		

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	DRC			0	DRC_OK
				1	DRC_INITERROR
				2	DRC_CMDERROR
				3	DRC_COMMERROR
				4	DRC_FILEERROR
				5	DRC_MEMFAIL
				6	DRC_RANGEERROR
				7	DRC_SCRIPTINUSE
				8	DRC_SYNTAX
				9	DRC_TOOLONG
					SIO_Util For rcv_status buffer: Holds the status for each character. From the LSR status bits – bit: 0 - data present, no error 1 - UART overrun, data present 2 - parity error 3 - framing error 4 - break detected 7 - receive buffer overrun.