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OMNIAlog


and

miniOMNIAlog

CODE LIST:

Errors – Alarms - Events

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Error codes

OMNIAlog

The following error codes are displayed at system startup:


Code	Description
1	SD Card incorrectly formatted
2	Error formatting SD Card
3	SD Card not found
4	Impossible to access Sensors settings file
5	Impossible to access Communication settings file
6	Impossible to access Datalogger settings file
7	Impossible to access Users settings file
8	Impossible to access Energy Savings settings file
9	Impossible to access Alarms settings file

miniOMNIAlog

The following error codes are displayed on miniOMNIAlog display:

Code	Description
E0	General Communication or FTP/MAIL connection Error. It refers to log events on web server
E1	USB Drive not found.
E2	Error in file copy.
E3	miniOMNIAlog is already in run mode.
E4	It is impossible to start miniOMNIAlog
E5	miniOMNIAlog is already in configuration mode.
E6	It is impossible to stop miniOMNIAlog.
E7	It is impossible to test the modem: it is not present

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Alarms codes


The following codes can be displayed in the web page “Data Monitor – Alarms” and are exported in the file “ALog_dd_mm_yy.csv”.

NOTE: when “OMNIAlog” or “miniOMNIAlog” are not specified, we refer to them as “Datalogger”.

LEGEND: **Light Blue** – only for OMNIAlog **Orange** – only for miniOMNIAlog


Code	Description	Note
0	eALR_EVT_NONE	This event is displayed in the CSV file on the input B (INB) when, with a datalogger alarm, there is no alarm on input B (INB).
1	eALR_EVT_TH_LOW	This event is created when you set the alarm event Low Threshold and the reading of the sensor is less than the threshold set.
2	eALR_EVT_TH_HI	This event is created when you set the alarm event High Threshold and the reading of the sensor is higher than the threshold set.
3	eALR_EVT_TH_LOW_HI	This event is created when you set the alarm event High/Low Threshold and the reading of the sensor is higher or lower than the threshold set.
4	eALR_EVT_TH_DELTA	This event is created when you set the alarm event Derivate Threshold and the variation between the previous reading and the current is higher than the

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		threshold set.
5	eALR_EVT_TH_LOW_DELTA	This event is created when you set the alarm event Derivate/Low Threshold and the variation between the previous reading and the current is higher than the threshold set or the reading of the sensor is lower than the lowest threshold set.
6	eALR_EVT_TH_HI_DELTA	This event is created when you set the alarm event Derivate/High Threshold and the variation between the previous reading and the current is higher than the threshold set or the reading of the sensor is higher than the highest threshold set.
7	eALR_EVT_TH_LOW_HI_DELTA	This event is created when you set the alarm event Derivate/High/Low Threshold and the variation between the previous reading and the current is higher than the threshold set or when the reading of the sensor is higher or lower than the highest or the lowest threshold set.
8	eALR_EVT_COMM	This event is created when there is a communication error with a MODBUS device on RS485bus or on electronics dedicated to vibrating wires.
9	eALR_EVT_HW_DL	Currently not used.
10	eALR_EVT_CONFIGURATION	This event is created when there is a setting error in a sensor that has to be acquired (e.g. sensor is not enabled).
11	eALR_EVT_HW_BASE	Currently not used.
12	eALR_EVT_HW_ADC	ADC communication error.
13	eALR_EVT_DRDY_ERROR	ADC answer error.

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14	eALR_EVT_DAC_ERROR	DAC communication error.
15	eALR_EVT_MEAS_DRIVER_ERROR	Measurement relay driver communication error.
16	eALR_EVT_MEAS_SEQ_ERROR	SPI measurement communication error.
17	eALR_EVT_MUX_DRIVER_ERROR	Multiplexer relay communication error.
18	eALR_EVT_MUX_SEQ_ERROR	SPI multiplexer communication error.
19	eALR_EVT_CURR_POLY_FILE_ERROR	Current calibration file not found.
20	eALR_EVT_VREF_POLY_FILE_ERROR	Currently not used.
21	eALR_EVT_OVERCURRENT_ERROR	Overcurrent sensors power supply.
22	eALR_EVT_VW_ERROR	Vibrating wire sensors reading error (communication error with dsPIC; the microcontroller is not programmed or it is defective).
23	eALR_EVT_OVERRANGE_INA_ERROR	Input A (IN A) reading over range.
24	eALR_EVT_OVERRANGE_INB_ERROR	Input B (IN B) reading over range.
25	eALR_EVT_VW_NO_SENSOR	Vibrating wire sensor not found.
26	eALR_EVT_VW_NO_TERMISTOR	Temperature sensor of a vibrating wire sensor not found.
27	eALR_EVT_MODBUS_BASE	Currently not used.
28	eALR_EVT_MODBUS_CRC_ERROR	CRC frame MODBUS error.
29	eALR_EVT_MODBUS_FRAMING_ERROR	MODBUS frame length error.
30	eALR_EVT_MODBUS_PROTOCOL_ERROR	MODBUS protocol error.
31	eALR_EVT_MODBUS_TIMEOUT	MODBUS communication timeout.
32	Modem answer error	This event created when the modem does not answer to a command.

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33	SIM PIN enabled	Currently not used.
34	Wrong PIN	Currently not used.
35	Modem connection error	Impossible to establish an INTERNET connection.
36	Modem connection configuration error	INTERNET connection parameters could be wrong.
37	Disconnection error	Modem does not disconnect.
38	Inbound connection error	Modem can't accept an input connection.
39	Humidity alarm: Low Threshold	OMNIAlog humidity value is lower than minimum threshold.
40	Humidity alarm: High Threshold	OMNIAlog humidity value is higher than minimum threshold.
41	Temperature alarm: Low Threshold	Datalogger temperature value is lower than minimum threshold.
42	Temperature alarm: High Threshold	Datalogger temperature value is higher than minimum threshold.
43	Power Supply alarm: Low Threshold	Datalogger power supply is lower than minimum threshold.
44	Power Supply alarm: High Threshold	Datalogger power supply is higher than minimum threshold.
45	Low space alarm: Log measure	Log Measure file size exceeds maximum size.
46	Low space alarm: Log event	Log Events file size exceeds maximum size.
47	Low space alarm: Log alarm	Log Alarms file size exceeds maximum size.
48	Script syntax error alarm	Syntax error in the acquisition script.
49	Extemporary Acquisition alarm: Digital	An extemporary acquisition (not

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	Input 1	programmed) due to an impulse on digital input IN1 occurred.
50	Extemporary Acquisition alarm: Digital Input 2	An extemporary acquisition (not programmed) due to an impulse on digital input IN2 occurred.

Event Codes

The following codes can be displayed in the web page “Data Monitor – Events” and are exported in the file “ELog_dd_mm_yy.csv”.

NOTE: when “OMNIAlog” or “miniOMNIAlog” are not specified, we refer to them as “Datalogger”.


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LEGENDE: **Light Blue** – solo per OMNIAlog **Orange** – solo per miniOMNIAlog


Code	Description	Note
0	Login executed	Login executed from web.
1	Logout executed	Logout executed from web.
2	Configuration Edited	Currently not used.
3	Send measures on FTP	Attempt to send Measure Log file through FTP.
4	Send events on FTP	Currently not used.
5	Send alarms on FTP	Attempt to send Alarms Log file through FTP log
6	Login via console	Currently not used.
7	Acquisition started	Datalogger started the acquisition cycle.
8	Acquisition ended	Datalogger ended the acquisition cycle.
9	Acquisition delayed	Acquisition start delayed from the scheduled time.
10	Stand-by	Datalogger is set in “sleep mode” to optimize consumption.
11	Switched on	Datalogger has been switched on.
12	Wake up	Datalogger woke up from the low-power mode to start a scheduled activity .
13	Acquisition set:	Datalogger, once an acquisition cycle has ended, sets the next one. After, in the column are displayed the date and time of next acquisition.
14	Acquisition wait	Datalogger, after setting the next

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		acquisition, waits to execute it.
15	Script started:	Start executing Script. A script includes an activity that could be executed by Datalogger (e.g. acquisition, control updates, etc.).
16	Script ended	Currently not used.
17	Task active	Currently not used.
18	Task inactive	Currently not used.
19	-----	Currently not used.
20	email successfully sent	The email has been successfully sent to the configured addresses.
21	SMTP server timeout error	The SMTP outgoing mail server took too much time to answer or is not available.
22	email sending error	It was not possible to send the email to the configured addresses.
23	DNS resolution error	The server name resolution gave a negative outcome (it was impossible to reach the server).
24	email connection error	It's not possible to connect to the email server; probably a firewall prevents the connection or the server is not available.
25	mailbox full	Datalogger internal email buffer is full. Some emails had been lost since the server is not achievable.
26	DNS resolution ok	The server name resolution gave a positive outcome (it was possible to reach the server).
27	Loading error Script	The file script is not found on OMNIAlog.
28	Aborted Script	The script ended prematurely the

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		execution.
29	OMNIAlog in STOP mode	Datalogger has been set from the user in STOP mode.
30	OMNIAlog in CONFIGURATION mode	Datalogger has been set from the user in CONFIGURATION mode
31	OMNIAlog in ACQUISITION mode	Datalogger has been set from the user in ACQUISITION mode
32	Syntax error	Syntax error in the script.
33	Unbalanced bracket	Unbalanced brackets within the script.
34	No formula	Currently not used.
35	Is not a variable/procedure	Currently not used.
36	Expected: THEN	IF structure error.
37	Program too complex	The script is too complex to be executed.
38	REPEAT/IF unbalanced	The structure has been created incorrectly. Impossible to execute the script.
39	Too many variables/procedures	Too many variables or procedures have been used in the script. The available memory is not sufficient.
40	Parameter error	An invalid argument had been passed to a script function.
41	New firmware uploaded ver.	Firmware update correctly executed. It is displayed also the uploaded version.
42	Firmware already on-board ver.	The firmware has not been updated because an updated version is already installed on Datalogger
43	BackUp firmware uploaded ver.	Datalogger restored the back-up firmware after a new update failure.

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44	Restore firmware uploaded	Currently not used.
45	FLASH access error!	Flash writing error during the firmware upload.
46	BackUp files access error!	Backup firmware access error.
47	Restore files access error!	Restore firmware access error.
48	BackUp copy error!	Backup firmware copy error.
49	New firmware corrupt!	The uploading firmware is corrupted and therefore useless.
50	BackUp firmware currrupt!	The back-up firmware on Datalogger is corrupted and therefore useless.
51	Restore firmware currrupt!	Currently not used.
52	FTP: Authentication error	Error in the server FTP access credentials.
53	FTP: File access not possible	Impossible to create file on server (verify the path of the destination folder)
54	FTP: File not found	The requested file is not on the FTP server (the file with the firmware version for the updates check has not been found on the server).
55	FTP: Generic error	FTP generic error
56	FTP: File sending OK	The file has been correctly sent from Datalogger to FTP server .
57	FTP: Timeout server	FTP server does not answer.
58	FTP: File transfert not possible	Error during the connection with FTP server.
59	FTP: Re-transmission Overflow queue	The re-transmission queue is full.
60	SMS sent ok!	The SMS has been correctly sent from Datalogger.

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61	SMS sent error!	There had been a problem in sending the SMS.
62	PPP Connection	Datalogger tries to start an INTERNET connection through GSM/GPRS modem connected to RS-232
63	PPP connection established	An INTERNET connection through GSM/GPRS modem was established.
64	PPP connection closed	INTERNET connection closed.
65	Modem answer error	The modem didn't answer correctly
66	Modem signal level	It shows the signal level of the modem
67	No modem signal	The modem has no signal
68	Signal level to poor for connection	The modem has not enough signal for communication
69	Test modem started	Modem test started
70	Log modem info:	Generic log on modem
71	OMNIAlog configuration	Datalogger is set in CONFIGURATION mode through the web.
72	OMNIAlog stop	Datalogger is set in STOP mode through the web.
73	OMNIAlog start	Datalogger is started through the web.

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74	Default Calibration: Current Source	This event is created when the default calibration file is used. It means that the calibration file created by NEXT INDUSTRIES is incorrectly detected from Datalogger.
75	Default Calibration: Vref	This event is created when the default calibration file is used. Vref is not calibrated, so this message could always be used.
76	Default Calibration: 10mV	This event is created when the calibration file for the 10mV range is used. It means that the calibration file created by NEXT INDUSTRIES is incorrectly detected from Datalogger.
77	Default Calibration: 100mV	This event is created when the calibration file for the 100mV range is used. It means that the calibration file created by NEXT INDUSTRIES is incorrectly detected from Datalogger.
78	Default Calibration: 1V	This event is created when the calibration file for the 1V range is used. It means that the calibration file created by NEXT INDUSTRIES is incorrectly detected from Datalogger.
79	Default Calibration: 10V	This event is created when the calibration file for the 10V range is used. It means that the calibration file created by NEXT INDUSTRIES is incorrectly detected from Datalogger.
80	Default Calibration: 4-20mA	This event is created when the calibration file for the 4-20mA range is used. It means that the calibration file created by NEXT INDUSTRIES is incorrectly detected from Datalogger.
81	COMX task start	Currently not used.

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82	COMX task stop	Currently not used.
83	Multiplexer inizialization	Currently not used.
84	Multiplexer de-inizialization	Currently not used.
85	Mailbox allocation failed	Task communication error.
86	Internal ADC timeout	ADC internal error.
87	web folder updated	Web pages update was successful.
88	Restore folder updated	The restore folder update was successful.
89	NewFw.hex updated	The “NewFw.hex” file has been correctly copied within the “Firmware” folder in the Datalogger SD card.
90	Error during web folder copy	Web pages update was unsuccessful.
91	Error during restore folder copy	The restore folder update was unsuccessful.
92	Error during NewFw.hex file copy	An error occurred during the “NewFw.hex” file copy within the “Firmware” folder on the Datalogger SD card.
93	Bootloader update failed	The firmware update through bootloader mode was unsuccessful.
94	OMNIAlog reboot	Datalogger has been restarted from the user or after an operation (e.g. data download) that expects a restart.
95	Database update. OMNIAlog configuration deleted.	After a data structure update, the old configuration on Datalogger has been deleted to avoid conflicts.
96	Update check error	OMNIAlog was not able to check on internet for new firmware. This is an automatic weekly check.
97	Update check executed	OMNIAlog successfully checked on

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		internet for new firmware. This is an automatic weekly check.
98	V OUT power supply reset	OMNIAlog resets (switched on and off) the power on V OUT clamp to allow the reset of the communication device connected to OMNIAlog. This is an automatic operation performed daily at 00:00.
99	Login	The user logs Datalogger through the Web pages.
100	Logout	The user logouts Datalogger through the Web pages.
101	Calibration Internal Temperature Sensor	The internal microcontroller temperature sensor has been calibrated (the calibration button has been pushed).
102	External RAM init fail	The external RAM is in an incorrect state.
103	Meas. settings;	It shows the measure information set from the user.
104	Mod. info:	It shows Datalogger model.
105	Reset to default settings	The user resets the Datalogger settings through web (“Reset default settings” button).
106	Extemporary Aquisition: Test Measure	A test reading has been requested from the web (“Test Measure” button).
107	Extemporary Aquisition: Read Now!	A prompt acquisition has been requested from the web (“Acquisition” button).
108	USB Data download	Data have been downloaded through USB pen-drive.
109	Extemporary Aquisition: Digital Input 1	An acquisition due to an impulsive survey (TRIGGER) on digital input 1 has

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		been executed.
110	Extemporary Aquisition: Digital Input 2	An acquisition due to an impulse survey (TRIGGER) on digital input 2 has been executed.
111	Vibrating wire search: start frequency adjusted	The standard research for the vibrating wire failed. It was started the research on central frequencies.
112	Mail attachment too big	The mail attachment was too big and has been dropped.
113	VW firmware update launched	The user has already launched DSC update (VW Digital Signal Controller)
114	VW firmware update completed	DSC update is complete
115	VW firmware update failed. Timeout DSC	DSC update failed because of the timeout (DSC didn't answered)
116	VW firmware update failed. Verify error	DSC update failed (the user can't correctly set up the DSC)
117	VW firmware update failed. Copy file error	DSC update failed (file not found)
118	VW firmware update failed. Hex file corrupted	DSC update failed (the file has been found but is corrupted)
119	PC connection established	It was established a PC connection through USB (only for miniOMNIAlog)
120	PC connection closed	It was done the PC disconnection through USB (only for miniOMNIAlog)
121	System warning 1	An incorrect start of oscillator occurred. Anyway, the system works correctly using the internal oscillator.

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“OMNIAlog” alarm threshold

The following table shows the different alarm thresholds in “OMNIAlog”.

Alarm type	Minimum threshold	Maximum threshold
Temperature	-20 °C	+65 °C
Humidity	10,00%	80,00%
Power (battery)	25,00%	100,00%
Power (external)	9V	20V (up to fw 3.37.17 version) 30V (from fw 3.38.18 version)
Log_Measure		10% (so 90% of full memory)
Log_Alarm		100 MB
Log_Events		100 MB
Internal memory	10%	


These thresholds are fixed and can't be set from the user.

“miniOMNIAlog” alarm threshold

The following table shows the different alarm thresholds in “miniOMNIAlog”.

Alarm type	Minimum threshold	Maximum threshold
Temperature	-20 °C	+65 °C
Power (battery)	8.4V	not present
Power (external)	10.5V	14V
Log_Measure		10% (so 90% of full memory)
Log_Alarm		100 MB
Log_Events		100 MB
Internal memory	10%	

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These thresholds are fixed and can't be set from the user.

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