

Information

Additional new data safety feature in elproLOG ANALYZE

Software Version: elproLOG ANALYZE / ANALYZE QLS 3.60 or later

Introduction

This new safety feature built into elproLOG ANALYZE / ANALYZE QLS actively informs the user if the integrity of the data cannot be guaranteed (e.g. after a power failure due to a low battery) and prevents the read-out of data.

The current situation

When operating with ECOLOG datalogger, it can occur after a battery power failure that the message "RAM IMG-BMP destroyed" appears in the status report in elproLOG ANALYZE / ANALYZE QLS (see **Figure 1**).

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STATUS DES DATENLOGGERS                                     elproLOG V3.40.06 Qls

Ecolog TH2 Modul ID:    56688 - V8.03 [PN:100611727]
Initialisiert am:      02.04.2001 15:39:19
Umprogrammiert am:    08.06.2007 16:43:42
Modulbeschreibung:    Aufzeichnung
Modulzeit:            22.06.2007 11:54:34 - [RAM IMG-BMP destroyed]
Modulzeit Info:       ID: # 17 - durch Kommando
                       gesetzt auf 22.06.2007 11:49:03 am 30.00.2000 30:37:04

Aktueller Zustand:    Aufzeichnung laufend
Zustand der Justierung: Justierung OK
Aufzeichnungsmodus:   START/STOPP
Intervall / Dauer:    10 Min / 222 Tg 5 Std
Aufzeichnungsstartzeit: sofort
Angeschlossene Fühler: 2
```

Figure 1: Status report with RAM IMG-BMP destroyed error message

This message indicates that part of the content of the datalogger's internal RAM has been lost and that the plausibility of the recorded data needs to be checked by an operator after data read-out.

Until now, ELPRO has recommended the following procedure in such cases:

1. Read-out the datalogger and check the data for plausibility (e.g. is date/time scale correct?)
2. Analyze the reason for the error message described above (RAM IMG-BMP destroyed) (is battery ok?) and correct the error.
3. Reset error message by programming the battery change time (File > Extended setup > programming of battery change time).

How does the new safety feature work?

In addition to the remark in the status report, an additional data safety feature has been implemented in elproLOG ANALYZE / ANALYZE QLS. This new safety feature actively informs the user if the integrity of the data cannot be guaranteed (e.g. after a power failure due to a low battery) and prevents the read-out of data.

When a datalogger is read-out, the data is checked for plausibility, using date/time and other information stored in the datalogger.

If, as a result of this test, the plausibility of the recorded data cannot be guaranteed, then a message box is displayed (see **Figure 2**), the read-out process is canceled and no data will be shown on the screen.

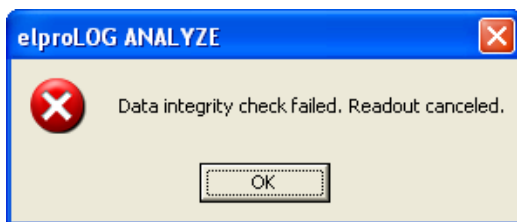


Figure 2: Message box "Data integrity check"

What can I do to read-out the data?

If the above displayed message box is shown, the following steps can be done to be able to read out the recorded data:

1. Read-out the status of the datalogger and analyze the error by examining the displayed information (e.g. is a "RAM IMG-BMP destroyed" message shown, see **Figure 1**?)
2. If the RAM IMG-BMP message is shown, please exchange the battery (Recommendations regarding battery change interval can be found in the operating manual of the datalogger) and set the battery change time (Extended setup > programming of battery change time). Retry to read-out the data.
3. If the datalogger still cannot be read-out, please update date/time of the datalogger (File > Extended setup > Set date and time) and retry to read-out the data.
4. If the data integrity check again fails, then this is indicating that the content of the datalogger RAM has been lost to large extent. A read-out of the datalogger is not possible due to data security reasons. Please contact ELPRO for further support.
In any case, you can bring the datalogger back into operation by reprogramming the instrument (File > Datalogger Setup...).

Important

If the above steps lead a successful read-out of the datalogger, it is recommended that the data is checked for plausibility (e.g. is date/time scale correct?)

Known problems

If a datalogger is configured for a delayed start, then the data integrity check may fail if you read out the instrument while it is still waiting for the start of the measurement. This will be corrected in future versions of elproLOG ANALYZE / ANALYZE QLS.