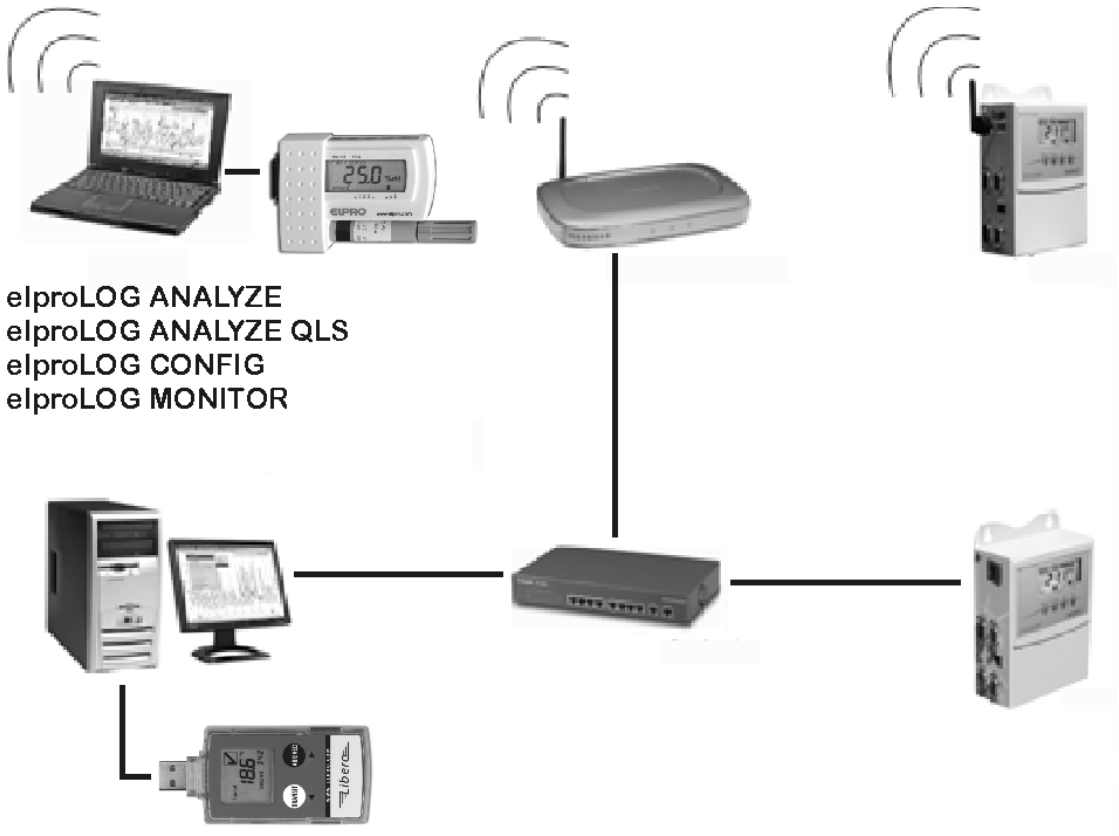
elproLOG ANALYZE
Version 3.5x

EN



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In the interest of our customers, we reserve the right to make any changes resulting from technical advances. Therefore, schemes, descriptions and extent of delivery are subject to change without any notice!

This manual is valid as from software release 3.5x

elproLOG... Software

Currently the following products are available

- elproLOG ANALYZE
- elproLOG ANALYZE-QLS

Software for handling dataloggers and evaluating data. elproLOG ANALYZE-QLS These basic functions are common to all versions. elproLOG ANALYZE-QLS possesses an audit trail function and is qualified after 21CFR11.

For more details about the current version see chapter:

1.1 *New Functions in Version 3.50*

Version

The software is delivered on a CD-ROM with the following designation: 3.5x.yy
The current version number of the software is shown by the ReadMe file

In this document the name elproLOG ANALYZE is used for both products.

- elproLOG CONFIG
- elproLOG MONITOR
- Libero Configuration Utility

Document No

SC3001E..
SM3001E..
LI6001E..

Additional documentations

- System Configuration
- Ethernet Manual
- ReadMe

Document No

EN6004E..
IT6001A..

These documents are kept on your CD-ROM in the directory: ...English \ Docu...

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1 Installation

PRIOR INSTALLATION OF A NEW RELEASE, THE FORMER RELEASE MUST BE DEINSTALLED!

With elproLOG ANALYZE you are able to open xxxxx_nonQLS.mdf files only.

1.1 New Functions in Version 3.50

elproLOG ANALYZE replaces the two software products elproLOG and elproLOG NET.

For details about the current functions of elproLOG ANALYZE elproLOG see 2.5 *Buttonology* and 2.6 *Menus - New functions since V3.20*

1.2 Syste Requirements

- Windows 2000 SP4 or XP
- Pentium 1.5GHz
- Memory min: 512 MB RAM
- Hard disc space: 150 MB
- Monitor 800 x 600 Pixel

1.2.1 LAN

TCP/IP
2101
2362

For a successful use of the LAN features your LAN settings must grant access to the following TCP/IP ports:

- 2101; used for the communication with ECOLOG-NET dataloggers.
- 2362; used for the LAN configuration of ECOLOG-NET dataloggers via Digi Device Discovery software.

1.3 Register

You will need your serial number to activate the software and to receive customer support; keep this document in a safe place where it can be referenced easily.

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1.4 Installation Procedure

1. The CD uses an auto run function so the installation routine should start automatically.
2. If this is not the case, open the Windows Explorer and switch to the CD-ROM drive. To install the software, double-click with the left mouse button on the setup symbol.

Needs local administrator rights for the installation.

Elpro.exe

Information about the software version, history and features see the “Readme File“

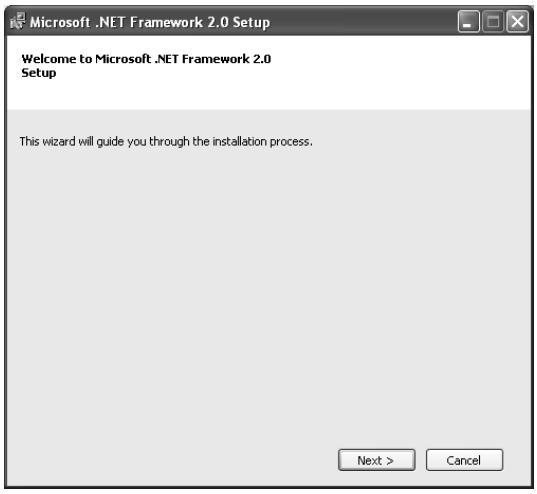
Select installation language

OK

Microsoft.NET Famework 2.0

If the required version of Microsoft.NET Framework is missing, it will be installed now. Afterwards the installation of elproLOG ANALYZE begins.

1. Setup starts



Next

2. End-User License Agreement

✔ I accept the terms of the license Agreement

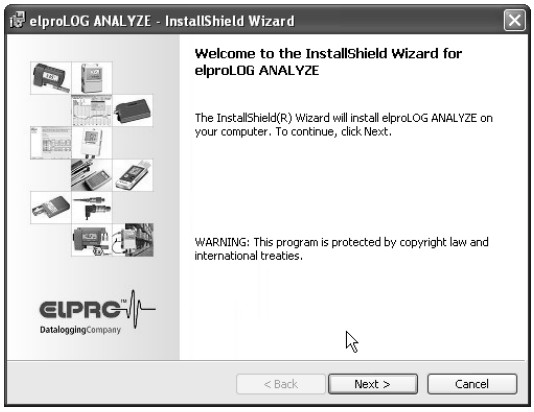
Install

3. Setup Completed

Finish

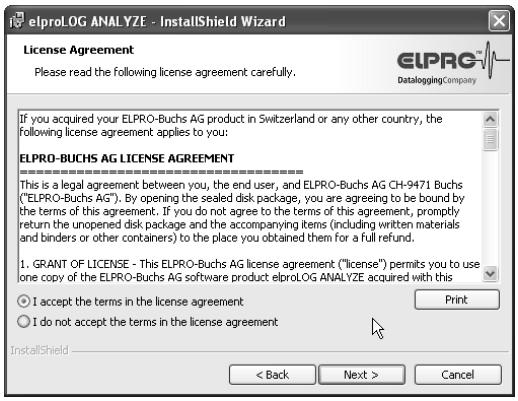
elproLOG ANALYZE - InstallShield Wizard

1. Installation of elproLOG ANALYZE starts



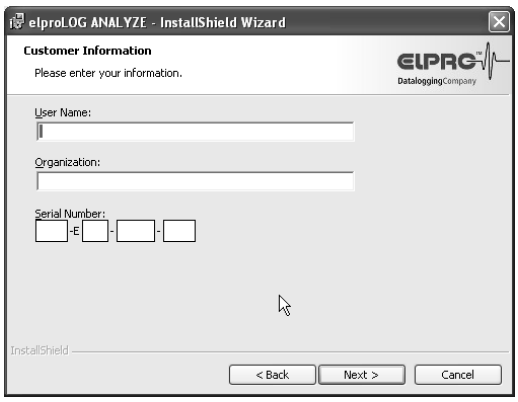
Next

2. Accept the license agreemen



Next

3. Enter user name, organisation and serial number



Next

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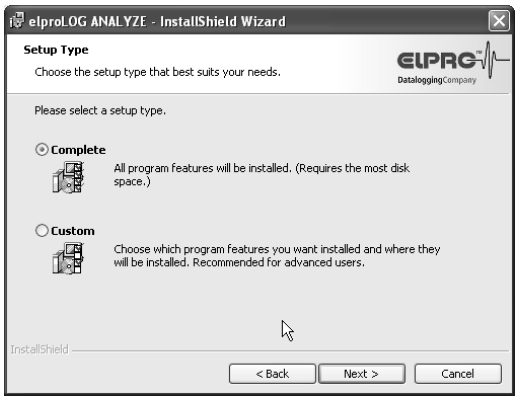
4. Select a setup type



Next

5. Ready to install the program

Insatll

6. InstallShield Wizard completed

Finish

After the installation has been completed, you may work with elproLOG ANALYZE; see chapter 2 *Use of elproLOG ANALYZE*

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2 Use of elproLOG ANALYZE

2.1 Interface, Data Cable and Network

HOTDOG
HAMSTER-A

If you are using a datalogger of the typ: HOTDOG or HAMSTER-A, you are going to need a PC interface, part-no 2302, for the communication. Connect the PC interface to a free serial port with the supplied connection cable. If your PC is equipped with a 9-pin connector (AT - typ), use this port. If your PC is equipped with an USB port, use the USB adaptor part-no 2317-USB.

Note the date of start-up or the last battery change.

The PC interface contains 2 pieces of 9 V alkali - compound batteries. For a perfect function these batteries should be changed at least once a year.

The serial ports are mostly labelled COM ... Select one depending on your hardware situation.

ECOLOG
HAMSTER-E
HOTBOX

If you are using ECOLOG, HAMSTER-E or HOTBOX data-loggers, you do not need a PC interface. These data loggers are connected to your PC with a typ dependent serial data cable.

ECOLOG-NET

ECOLOG-NET data loggers are able to communicate via an USB interface or a LAN / WLAN interface.

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2.2 Starting the Program

The program is started via the Start menu.

1. *Start - button*

- Click on the Start - button (1).
  elproLOG ANALYZE is located in the "Programs - Elpro- elproLOG ANALYZE" group.
- Click on the elproLOG ANALYZE - symbol to start the program.

A further possibility of starting the program: double click with the mouse on the linkage to the program, which appears after the installation on the desktop.

2.3 Date and Time

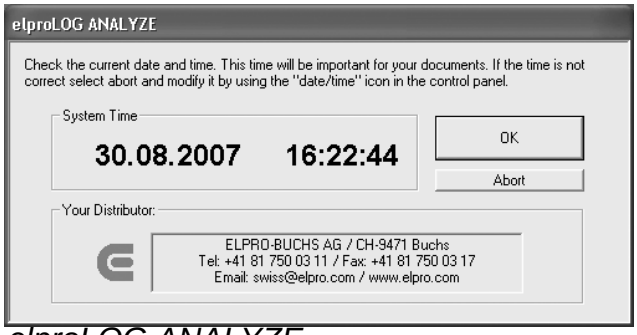
As time base for the dataloggers HOTDOG, HOTBOX, HAMSTER-A and ECOLOG TN2 always the PC clock is used.

Consider the change between spring and fall time.

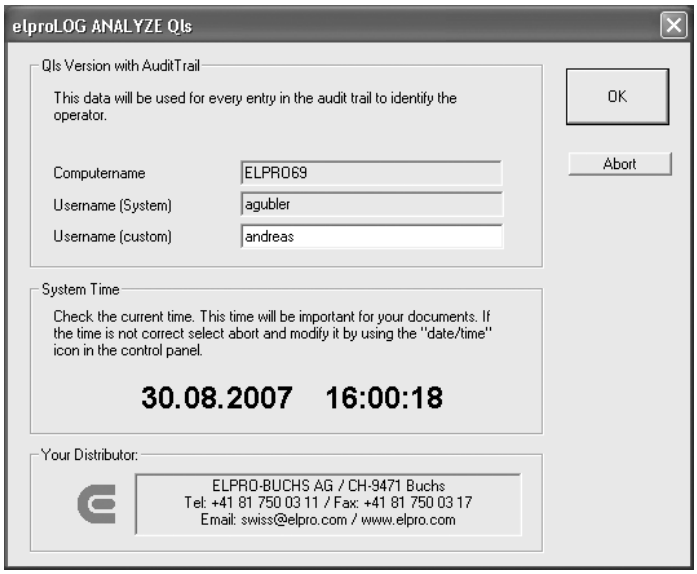
Date and time information of the PC have to be accurate.

The dataloggers of the type: HOTBOX Euro, HOTBOX SE, HTH, HTN, ECOLOG TN3-P, TN4, TN4-L, TH1, TH2, ECOLOG-NET, HAMSTER-E are equipped with their own, internal clock.

Every time the program is started, you have first to check the PC clock by one of the following screens



elproLOG ANALYZE



elproLOG ANALYZE QLS

The distributor file contains the address of your local ELPRO - Distributor.

Depending on the presence of a dealer file, appears the time only or the time and the address in the window.

If the readings in this window are wrong:

1. Terminate the program elproLOG ANALYZE
2. Adjust the internal clock of the PC "Start - System - Date and Time".
3. Restart the program elproLOG ANALYZE and check the information data and time again. Confirm it by pressing "OK".

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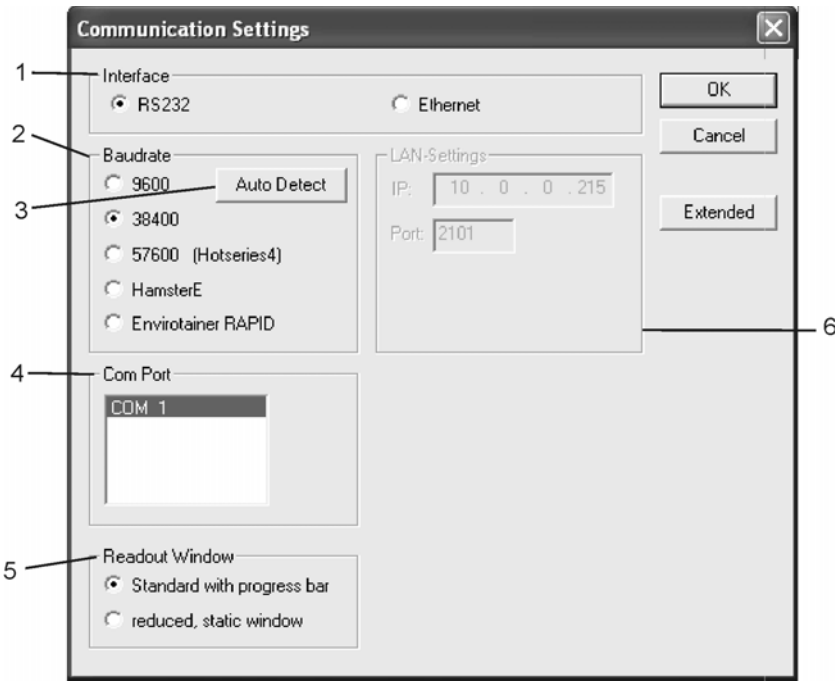
2.4 Initial Settings

After the first start, a few basic settings must be checked and modified if necessary.

Connection Options

- ✔ In the pull down - menu "Options" select "ComPort"; the selection window "Communication Settings" appears.



1. *Interface* — *RS232 / Ethernet*

- RS232: used for data loggers with RS232 connection
- Ethernet: used by data loggers with LAN interface.

2. *Baudrate* — *9600 - HAMSTER-E*

- 9600: old data loggers communicate with 9600 Baud automatically.
- 38400: standard communication rate
- 57600 (Hotseries4): is used by HOTBOX SE; V1.03 and dataloggers with LAN interface in cases where the local RS232 / USB port is used.
- HAMSTER-E: is used by the HAMSTER-E dataloggers only!
- Envirotainer RAPID: used for Envirotainer RAPID-IR reader only

3. *Auto-Detect* — *Auto-Detect*

By pressing this button, elproLOG ANALYZE determines the required baud rate automatically. This function

may also be activated directly out of communication error messages

Com-Port

4. *Com Port*
Selection whether the datalogger, the PC interface or the USB to RS232 adaptor (part.-no. 2317-USB) are connected to serial port COM .....

Readout Window

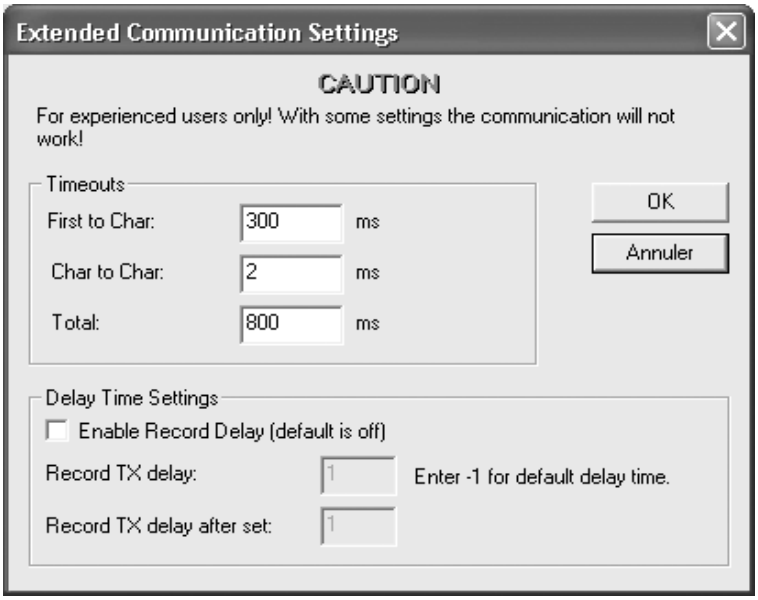
5. *Readout Window*
The standard progress bar works well with most computers. It should only be left out with slow computers or computers with a high work load in order to avoid reading errors during transmission.

Port 2101

6. *LAN- Settings*
This is the current IP address and the used TCP/IP port. Port 2101 is the default port and should not be changed!

Extended Communication Settings

- By clicking onto the "Extended" button in the "Communication Settings" window the following window appears:



ATTENTION

Modify the settings in this window if the program faces problems by establishing proper communication with a datalogger only!

Always change all 3 parameters by the same factor.

As longer the time outs are as slower the communication for all dataloggers in the network will be.

- First to Char: Defines the time to elapse till the communication is stopped if nothing is received
- Char to Char: Maximum time allowed to elapse between the arrival of 2 characters
- Total: Maximum time for a data block to elapse

The software makes 3 attempts to establish or continue communication, therefore an error message shows up earliest after the definite timeouts have passed by up to 3 times

Timeouts

Bereich der Timeouts:	First to Char	300ms - 3000ms
	Char to Char	2ms - 200ms
	Total	100ms - 5000ms

Use as short timeouts as possible!

USB-Port

USB-Port

For service work like: battery exchange, local data evaluation and local reprogramming of the datalogger functions, the USB port off the datalogger may be used. For a proper functioning of the communication between the datalogger and the pc, make sure the appropriate USB driver has been installed. If the driver is missing, you are going to find it on the elproLOG ANALYZE CD-ROM in the directory: USB for ECOLOG-NET. You may check the driver function by connecting / disconnecting the datalogger and watching the port indication in the Windows device manager. Port shows up and vanishes as the logger is connected or not.

2.5 Buttonology

Move the mouse pointer onto a button. After short time the name of the button and a short description of it's function appears left down in the status strip. SE3002BE: see pdf-files on your CD-ROM please

Read data
For details see chapter 5.3.1, SE3002BE

Read status
For details see chapter 5.3.1, SE3002BE

Logger setup
For details see chapter 5.8.1, SE3002BE)

Extended setup
For details see chapter 5.8.2, SE3002BE

Open file
For details see chapter 5.7.2, SE3002BE

Save file
For details see chapter 5.7.1, SE3002BE

Print
For details see 2.6 *Menus - New functions since V3.20* and chapter 5.6.6, SE3002BE

Save chart and data as pdf-file
For details see chapter 2.6 *Menus - New functions since V3.20*

View chart
For details see 2.8 *Graphic* and chapter 5.5.1, SE3002BE

View table
For details see chapter 5.5.1, SE3002BE

View status
For details see chapter 5.5.1, SE3002BE

View Report
For details see chapter 2.6 *Menus - New functions since V3.20*

Add new report information

For details see chapter 2.6 *Menus - New functions since V3.20*

Zoom

For details see chapter 5.3.2, SE3002BE

Previous zoom

For details see chapter 5.3.2, SE3002BE

Zoom reset

For details see chapter 5.3.2, SE3002BE)

Open zoom settings

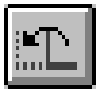
For details see chapter 2.6 *Menus - New functions since V3.20*

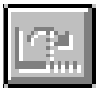
Save zoom settigs

For details see chapter 2.6 *Menus - New functions since V3.20*

Indicate next graph during the representation of the single graphs or pair of sensors

For details see chapter 5.3.3, SE3002BE





Scroll (shift) of a zoom representation along the time axis, to the left or right, for one time period

For details see chapter 5.3.2, SE3002BE

Set markpoint

For details see chapter 5.5.2, SE3002BE)

Edit printout.

6 lines of text may be entered

For details see chapter 5.6.3, SE3002BE)

Help

For details see chapter 5.3.8, SE3002BE

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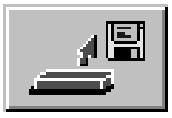
These special buttons are used in place of the standard buttons, if you select in the pull-down menu "file" the menu option "Data read with auto-save mode".

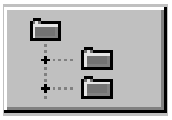


Read + Save

The datalogger data will be read and automatically stored in the predefined target directory.

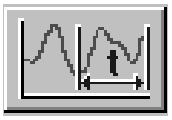
Select Logger

All dataloggers in the selected group are read and stored in a predefined directory automatically. For more information about this topic see
For details see chapter 2.6 *Menus - New functions since V3.20*



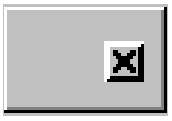
Select a target (work) directory

For details see chapter 5.3.6, SE3002BD



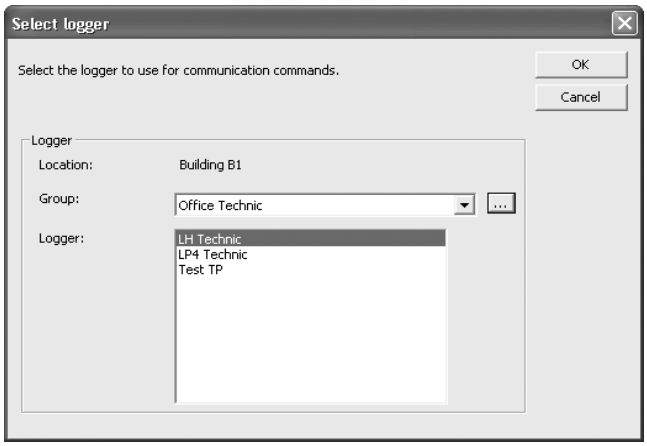
Select data range

With this function the data range read may be defined.



Exit read with auto-save mode

2.6 Menus - New functions since V3.20

Menu	Function	Description
File	Select Logger	 For an easy datalogger selection, the menu item "Select Logger" in the file menu has been added to the software. After the desired logger has once been selected, you are going to continue the datalogger reprogramming or evaluation as you have been used by all former versions of the elproLOG ANALYZE software..
	Import Libero Data	This function is used to import pdf files that have been created by the Libero data loggers. The menu item "Import Libero Data" has been added to the file menu. After the data has been imported they could be used as standard mdf files.
	Print	New function: Print Selection; allows selecting the following information: Current line chart with selected printout description and zoom settings, logger status, alarm protocol, table, report, audit trail. All printouts except table representation provides: user name, date and type of information. The selected information will be printed as a multiple page document.
	Edit Printout Description	Printout templates are stored in the program directory as ELOGWIN.TPL file. They might be copied to different pc for further use.

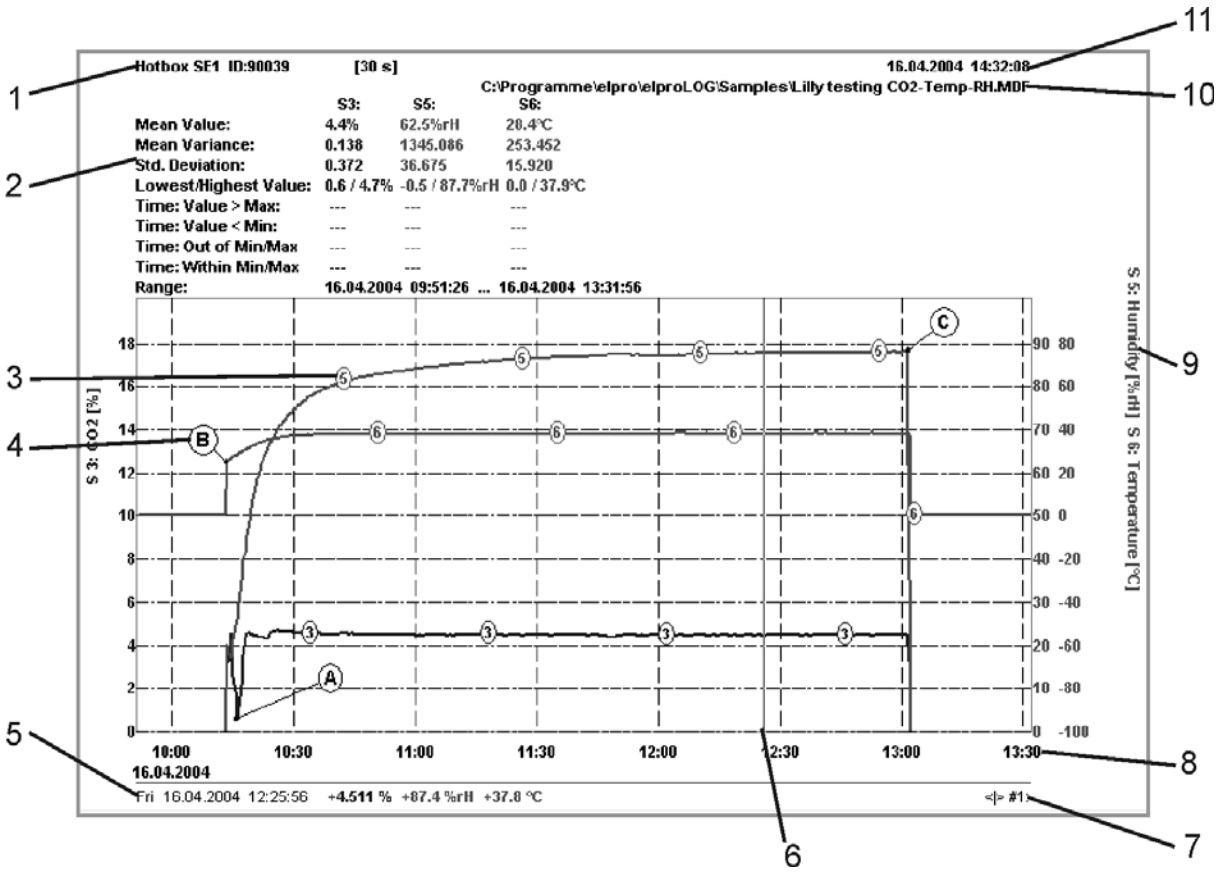
Menu	Function	Description
File	Create PDF	Selection window for the creation of pdf-files. Possible contents are: graphic with selected printout description and zoom settings, data-logger status, alarm protocol, report and audit trail.
	Send mail	Function to mail mdf- and / or pdf- files within the same E-mail by using a standard or free definable recipient address
Zoom	Date & Time	Presetting of the zoomed area by date & time
		The following functions are going to replace the former, less flexible save / reload / remove configuration functions from in the edit menu.
	Open Zoom	Restores a saved zoom setting
	Save Zoom	Saves current setting (zoom, axes, marker points, printout description ...)Up to 4 different settings may be saved in a mdf-file
	Remove Zoom	Deletes saved setting **NOT AVAILABLE IN ELPROLOG ANALYZE-QLS**
Edit	Add Report Entry	Possibility to add comments to an open file. Entries saved already may not be modified or deleted. Each entry provides user name and date of entry
Options	Humidity	Special representation for TH and D-HT has been removed from the option menu.
	Program Settings	- Initial work directory - Print out description directory - Predefined E-Mail address which will be used for all E-Mails unless the address will be modified manually.
View	Report	All comments added will be shown.

EN

2.7 Hint: MKT Limit Temperature

Limit temperature is a memo value for data evaluation and documentation (it shows up in the data print out). It is used to qualify e.g. a transportation process at the recipient's side by comparing the calculated MKT against the predefined limit temperature value; it is not used within the MKT calculation!

2.8 Graphic



1. *Datalogger type*
2. *Measurement statistics*
3. *Good overview with numbered, colored lines*
4. *Marker points*
5. *Value display according to cursor position*
6. *Cursor*
7. *Measured value unit by which cursor jumps when moved by cursor keys*
8. *Date and time scale*
9. *Right main axis (humidity) and secondary axis Temperature)of graph*
10. *File information of current graph*
11. *Reading date*

3 Setup ECOLOG-NET Datalogger

Currently six models are available, ECOLOG-NET LP4 & WP4 for 4 PT100 sensors, ECOLOG-NET LH2 & WH2 for 1or 2 r.H. / T probes and ECOLOG-NET LA8 & WA8 for up to 8 4.- 20mA signals

3.1 Datalogger Configuration - 3 steps

Step 1 - Desktop Installation (LAN or WLAN)

To identify a datalogger in a LAN / WLAN environment, each datalogger gets a unique address. This address is made of 3 different parts, these parts are called: IP Address & Subnet Mask & Default Gateway

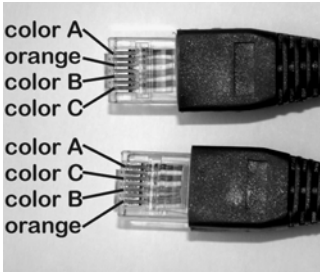
For the use of the elproLOG ANALYZE & elproLOG MONITOR software we recommend to use a fixed IP address. To avoid communication problems, the system administrator should release the network addresses prior installation! Consequently, the address information must be entered manually into each datalogger

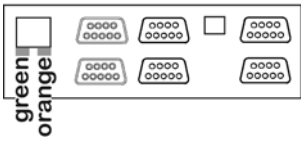
Used IP address, subnet mask and default gateway are examples only!

Public IP Addresses are divided into 3 classes

Class A	10.0.0.1	till 10.255.255.255
Class B	172.16.0.0	till 172.31.255.255
Class C	192.168.0.0	till 192.168.255.255

Step 1A - Procedure for LAN Installation

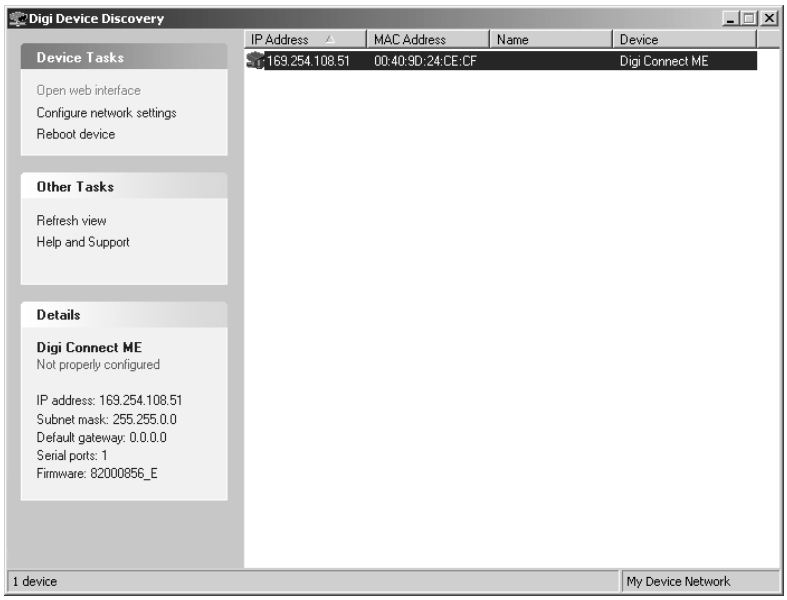




- ✔ Connect the ECOLOG-NET datalogger to your pc by using a crossover LAN cable.
  You may recognize the crossover LAN cable on the color pattern as shown. Watch out for the position of the orange wire as indicator for a crossover cable.
  The following states are indicated by the LEDs:
  - The orange LED is alight permanently - a stable link between the datalogger and the pc has been established.
  - Blinking of the green LED indicates data traffic

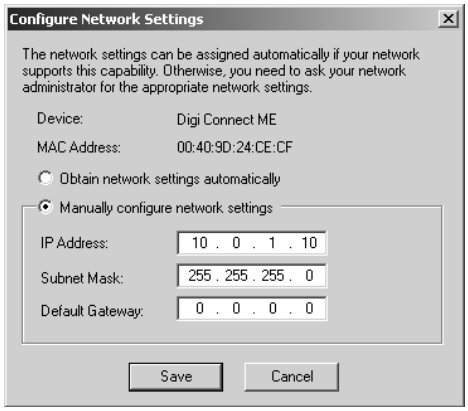
- Program unique datalogger address with Digi Device Discovery software.
  This software is part of the elproLOG ANALYZE CD-ROM.

Start - Program - Elpro - DigiDeviceDiscovery.



The message: "Not properly configured" indicates a network address conflict between the pc and the ECOLOG-NET. Configuration of the IP address is still possible! In cases where you want see the logger, switch of your FireWall please (ask your IT for assistance).

- Configure network settings



- Select: Manually configure network settings.
- Enter datalogger IP Address, Subnet Mask and Default Gateway
- If the Default Gateway is not used set it to:0.0.0.0

As standard value for the Subnet Mask use: 255.255.255.0

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Inquiry of the password

- Confirm these actions by pressing "Save".
  In cases where you are asked for a password after pressing "Save", close this window by pressing "Cancel" and restart the datalogger now
  You may restart the logger by disconnecting and reconnecting the power supply unit.
- Restart the ECOLOG-NET by executing "Reboot device".

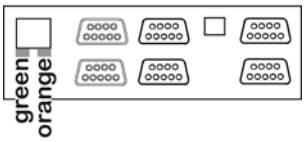
Step 1B - Procedure for WLAN Installation

Requirements

For more details about these settings talk to your IT department or refer to the documentation of the used access-point.

To set-up an ECOLOG-NET W... logger you are going to need a running access-point. This particular access-point has to propagate its SSID and the following security settings have to be switched off: WEP, WPA and MAC filtering. For more details about these settings talk to your IT department or refer to the documentation of the used access-point

If you face problems by switching off all security settings on the access-point in use, we recommend using temporarily a second access-point just for the set-up of the dataloggers.



- ✔ Power-up the datalogger and watch out for the states of the LEDs
  - The orange LED is alight permanently - a stable link between the datalogger and the pc has been established.
  - Blinking of the green LED indicates data traffic

Start - Program - Elpro - Digi Device Discovery.

- ✔ Program unique datalogger address with Digi Device Discovery software.
  This software is part of the elproLOG ANALYZE CD-ROM.

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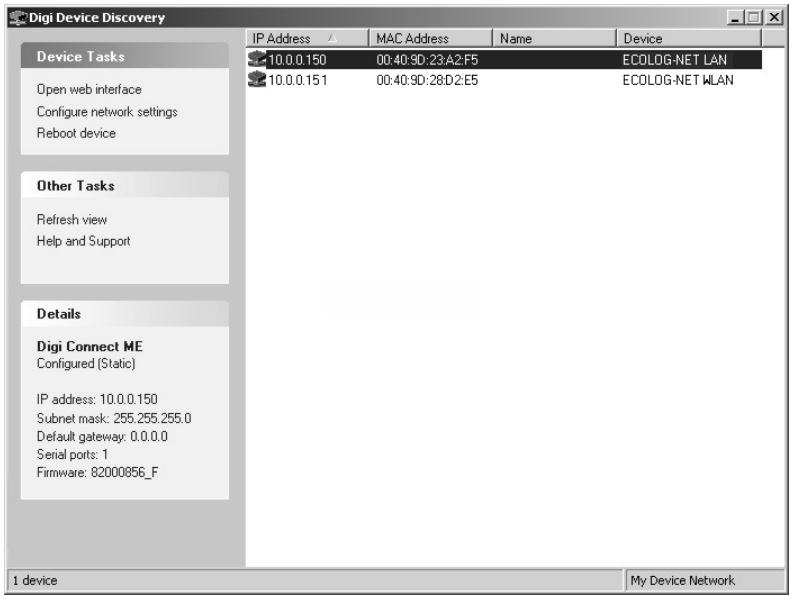
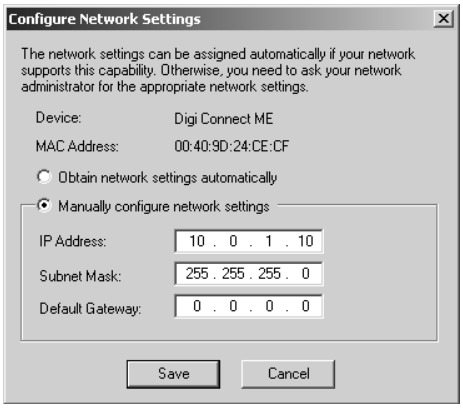


The message: "Not properly configured" indicates a network address conflict between the pc and the ECOLOG-NET. Configuration of the IP address is still possible! In cases where you want see the logger, switch of your FireWall please (ask your IT for assistance).

✔ Configure network settings



- Select: Manually configure network settings.
- Enter datalogger IP Address, Subnet Mask and Default Gateway
- If the Default Gateway is not used set it to:0.0.0.0
- Confirm these actions by pressing "Save".

  In cases where you are asked for a password after pressing "Save", close this window by pressing "Cancel" and restart the datalogger now

  You may restart the logger by disconnecting and reconnecting the power supply unit.
- Restart the ECOLOG-NET by executing "Reboot device".

As standard value for the Subnet Mask use: 255.255.255.0

Inquiry of the password

Security
WEB Interface
Wrong settings

http://www.elpro.com -Download-Knowhow

✔ Security

After all network settings have been made, define the security settings of the datalogger.

For a stable operation of the datalogger we recommend to enter a fix SSID, country, defined channel number and connections to wireless access points.

For any details and login of the WEB interface and reset a wrong setting, see: IT6001A Ether Net manual.

PLEASE HANDLE THIS TASK WITH MAXIMUM CARE, IF YOU CHOOSE A WRONG SETTING, YOU WANT FIND THE DATALOGGER ANYMORE ON YOUR WLAN!

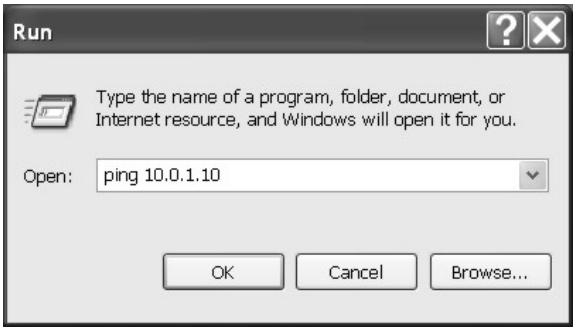
Step 2 - Communication Test

PING

The above settings may be tested with the Windows PING command.

Execute: Start - Run and enter: ping and the IP Address to be tested.

if the test fails, check the pc LAN configuration - the pc should be with in the same subnet as the datalogger is.



Step 3 - Documentation

- Print out the logger status
- Use the label on the logger housing to document the IP Address
- Complete the installation documentation to be used for a later installation qualification

3.2 Datalogger Installation - 6 Steps

Step 1 - Installation

Install dataloggers, sensors and power supply units according to your project documents.

Step 2 - Communication Test

Test settings with the Windows PING command.

(3.1 *Datalogger Configuration - 3 steps*, Step 2)

Step 3 - elproLOG CONFIG

Use group configuration files to define names and addresses of the dataloggers and their sensors.

Document SC3001

Step 4 - elproLOG ANALYZE

Setup dataloggers

Step 5 - elproLOG MONITOR

Define Monitoring and alarm functions

Document SM3431 & SM3001

Step 6 - Verification of the Installation

- ✔ Verify the installation by filling out the installation report, printing out all datalogger status information and write down on each logger status printout the corresponding LAN configuration information (IP Address, Subnet Mask, Default gateway). You may use the following blanc document "EN6004E System Configuration ECOLOG-NET" as an aid for this task. This file is stored on your elproLOG ANALYZE CD-ROM.

Document EN6004

- ✔ Check all sensor positions and alarm settings. Use calibration connectors to proof proper datalogger settings.

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4 Error Messages

Pleas use the battery type recommended by the manufacture (Elpro-Buchs AG) only.
Different types of batteries may lead to functional errors!
The following batteries are used:

Datalogger	Battery (part - no)
ECOLOG xxxx:	2820; Tadiran Inorganic Lithium Battery SL-760
HAMSTER-Exx	2820; Tadiran Inorganic Lithium Battery SL-760
HOTBOX SE	2820; Tadiran Inorganic Lithium Battery SL-760
HOTBOX Hxx	2820; Tadiran Inorganic Lithium Battery SL-760
HOTBOX-PROxx	2820; Tadiran Inorganic Lithium Battery SL-760
HOTBOX Bxx	2818

4.1 The most frequently shown Error Messages

elproLOG ANALYZE automatically generates error messages if discrepancies in the program are detected. A selection of the most important messages and the correction of their cause can be found on the following pages

Select "Communication History" "in menu "View".

Your representative or the next ELPRO Service Centre will be pleased to be of assistance. For all error reports the communication history (chapter 5.3.7 & 5.5.1, SE3002BE) will be a valuable aid for trouble shooting.

- **Communication Error 4 - Timeout**

The software elproLOG ANALYZE has a problem with correct data transmission.

Tip for fault locating

- Repeat the data transfer several times.
- PC with slow graphic adaptor. Close all open background programs.
- Select in the menu "Options" the menu item "Com Port...", and choose as read announcement the reduced, static window (see chapter 2.4 *Initial Settings*).

- Select in the menu "Options" the menu item "Com Port...", and reduce transmission speed to 9600 Baud.
- A timing problem exists in the communication between datalogger and software elproLOG ANALYZE. Increase tenfold the default values in the screen "Extended Communication Settigs" (see chapte 2.4 *Initial Settings*).

THE SOFTWARE ELPROLOG ANALYZE IS NOT DESIGNED FOR THE USE IN A CLIENT - SERVER ENVIRONEMENT.

- **Communication Error 5 - Modul does not answer**

The software elproLOG ANALYZE could not establish proper communication with the PC interface or the datalogger

Hinweise zur Fehlerlokalisierung

- Are the batteries in the PC interface down?
- Has the proper COM port been selected?
- Has the PC interface or the data cable been connected properly?
- Is the datalogger faulty (if possible connect another datalogger)?
- Check the proper functioning of the PC interface with a communication test (see chapter 4.2 *Error Handling*)

- Datalogger of the type ECOLOG are readable in the measuring mode only!
- Datalogger of the type ECOLOG-NET are not able to respond on multiple access, therefor use one of the following programs at the same time only: elproLOG ANALYZE, elproLOG CONFIG and elproLOG MONITOR!

- **Communication Error 13 - Wrong Checksum**

This message appears if a data record has been transmitted, but individual values are incorrect due to disturbance

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- **Communication Error**
  14 - More Records than transmitted
  20 - Instruction received incorrectly

The data connection from the PC to the datalogger is not perfect. Data blocks are partly transmitted double

Tip for fault locating

- Is a laptop PC used?
  During battery operation the signal level can drop.
  Connet the laptop PC to the AC/DC adaptor.
- Are the batteries in the PC interface down?
- Are the internal datalogger RAM defective?

- **Communication Error 15 - Timeout**

The reason for this error might by week batteries in the datalogger or a laptop PC with week batteries (hook your laptop to the power supply).

Tip for fault locating

- Is a laptop PC used?
  During battery operation the signal level can drop.
  Connet the laptop PC to the AC/DC adaptor.
- If possible replace the batteries in the datalogger.

- **Communication Error 16 - Incorrect Communication Start**

Unexpected characters have been received

Tip for fault locating

- The data cable might be defective.
- Wrong COM-Port selected and e.g. a mouse attached to the COM port.

- **Communication Error 26 - Invalid Module Type**

During reprogramming, a logger of different type has been connected.

- **Communication Error 11010**

Data transmission rate setting does not fit the attached datalogger (see chapter 2.4 *Initial Settings*).

- **Communication Error 9001, 9002, 9003, 11005, 12005, 13005**

Error messages of a HAMSTER-E

4.2 Error Handling

For a proper data link between the HOTDOG / HAMSTER-A and the PC interface, the bottom of the datalogger housing has to be clean and flat.

- **Passivation of the Datalogger Battery - HOTDOG**

This effect may occur with all datalogggers of the type HOT-DOG. The first data read out of the datalogger fails, although the battery is not yet used up.

Reason for passivation

- Long storage time of the Lithium - battery or of the datalogger.
- Longtime data recording period e.g. 6 month.
- Datalogger operation at temperatures above 40 °C - 50 °C.

Why this happes!

The internal resistance of the battery increases. Due to this increased resistance the higher power consumption during data readout may not be covered anymore.

Activation of the battery

After the battery was loaded, the passivation disappears after a certain time independently.

1. A reading attemp of the datalogger starts the activation process of the batteries
2. Wait 30 minutes
3. Read-out datalogger again.
4. Read-out datalogger again. If it can still not be read, contact the ELPRO service department

- New modules with new batteries will show a stronger passivation than older once!
- The data recording and time keeping functions of the logger is not affected by the passivation of the batteries.

- **Interface for HOTDOG & HAMSTER-A**

If the batteries of the PC interface are used up, try to read-out the datalogger again, after a battery exchange.

> A battery exchange may become necessary, after some dataloggers could be read-out without any problems.

Hint for a battery exchange

- Use high quality 9 V alkali - compound batteries only.
- The batteries should be exchanged at least once a year.

- **Communication Test for HOTDOG & HAMSTER-A**

After the installation of the software elproLOG ANALYZE and the PC interface (gray box), you are able to do the communication test.

1. Start the elproLOG ANALYZE software
2. If a datalogger is placed on the PC interface, remove it.
3. Click on the "Data Read" button (first button from left side).
4. In the top, left corner of the interface there is a clear glass bulb (LED).

- If this LED blinks 3 times with a 1 second interval - the communication test was successful.
- If the LED does not blink, there is a problem (PC interface, cable or PC)

4.2.1 HAMSTER-E

For a proper communication between datalogger and optical data cable, the plug and the housing of the datalogger have to be clean and the plug has to be in the correct position. (see HAMSTER-E manual chapter 2, CA6001B / CA6002B / CA6003B).

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4.2.2 ECOLOG & HOTBOX SE

- **Communication Test**
  1. Read-out the datalogger

> Datalogger with a display show "CON" during the data transfer.

  2. In case of problems, be sure that you have selected the same communication port in the software, as the one you have connected the logger to.

4.3 Information for Customer Support

If you need further assistance from the ELPRO - Customer support, supply us with the following information please:

- Release number of the software, version and type of the used operating system.
- Designation of the used datalogger, with which problems arise.
- Do the same problems arise with other dataloggers also?
- Which were the preceding actions, before problems arose (exact description of your datalogger application: time, temperature, shock .....).
- Exact definition of the error occured: copies of the status report, the graphic and the communication history or send us an email containing the read-out data if possible.

Select in the menu "Help" the menu item "Info".

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