

PHOXLOG

Option LOGGER & RS 422 for BamoPHOX



INSTRUCTIONS MANUAL

BAMO MESURES

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Option
LOGGER & RS 422

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LOGGER & RS 422 option for BamoPHOX

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1. FIRST COMMISSIONING

- The supplied cards with the BAMOPHOX logger monitors are ready to use.

CAUTION:

supplied cards are for exclusive use on BAMOPHOX Loggers.

YOU MUST NOT RECORD ANY OTHER DATA ON MEMORY CARDS.

In case of use for other purpose (such as memory card in camera, files saving from PC, etc.) the data from PHOXLOG won't be saved anymore until the format will be done once more (data will be lost).

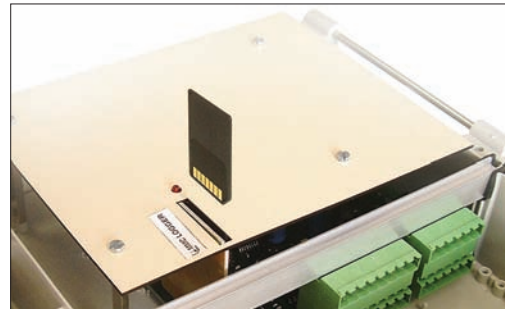
Erasing the file Bamophox.log on memory card can be done only from the menu on PHOXLOG software.

- Never use Windows explorer to erase or rename the file Bamophox.log on memory card
- Never format the memory card from Windows tools.

YOU MUST FORMAT MEMORY CARD AFTER INSERTION IN BAMOPHOX.

Do not insert the memory card prior to use. Please follow the operation order like described here after:

- 1) Connect the BAMOPHOX Logger model to the main supply.
- 2) Check the clock through the main menu.
- 3) Choose the recording period.
- 4) Locate the memory card on the upper cabinet (wall mounting) or on the rear of the panel mounting model.
Only when the red LED is off, insert the memory card.
Remove the memory card when red LED is lighted (recording sequence data) will damage all data.



- 5) Data recording is done every x minutes.
During 5 seconds red LED lights on when record mode.
When red LED is lighted, do not insert or extract the memory card.

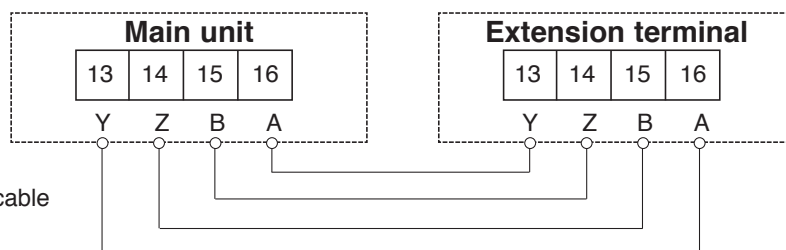
Note: without any memory card, the logger will not record any data.

2. WIRING TO AN EXTENSION TERMINAL BAMOPHOX

Wiring from wall or panel mounting BAMOPHOX to an Extension terminal BAMOPHOX

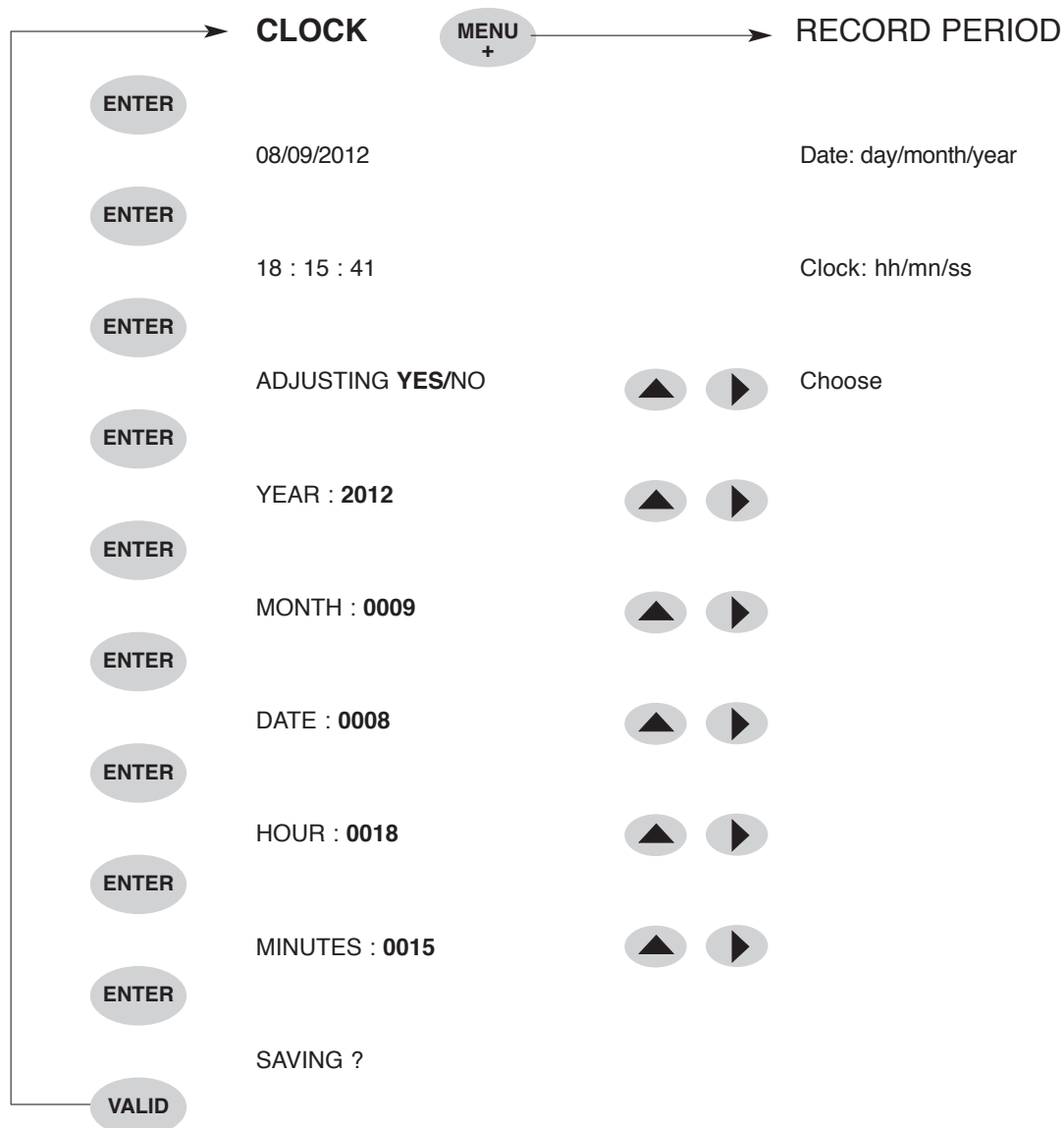
- Maximum length cable
500 m

- Wire specifications:
Mains cable or 4 wires shielded cable
 $\geq 0,25 \text{ mm}^2$ cross section

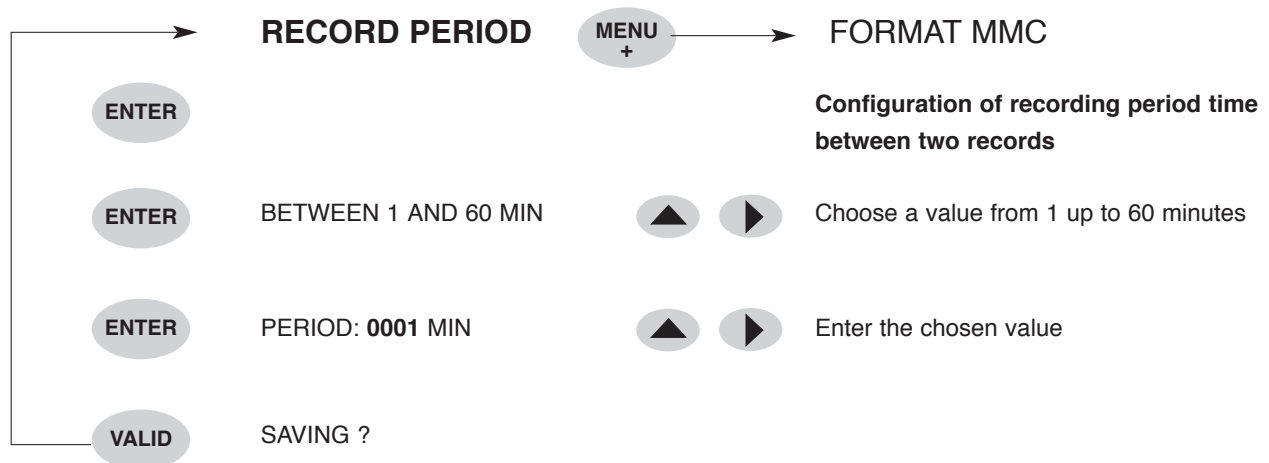


3. CONFIGURATION WITH BAMOPHOX MENU

3.1. CLOCK



3.2. LOGGER



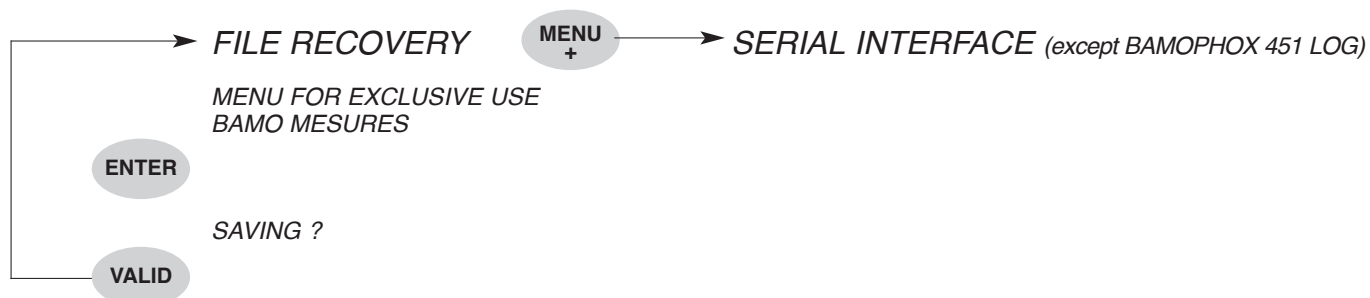
3.3. FORMAT MEMORY CARD



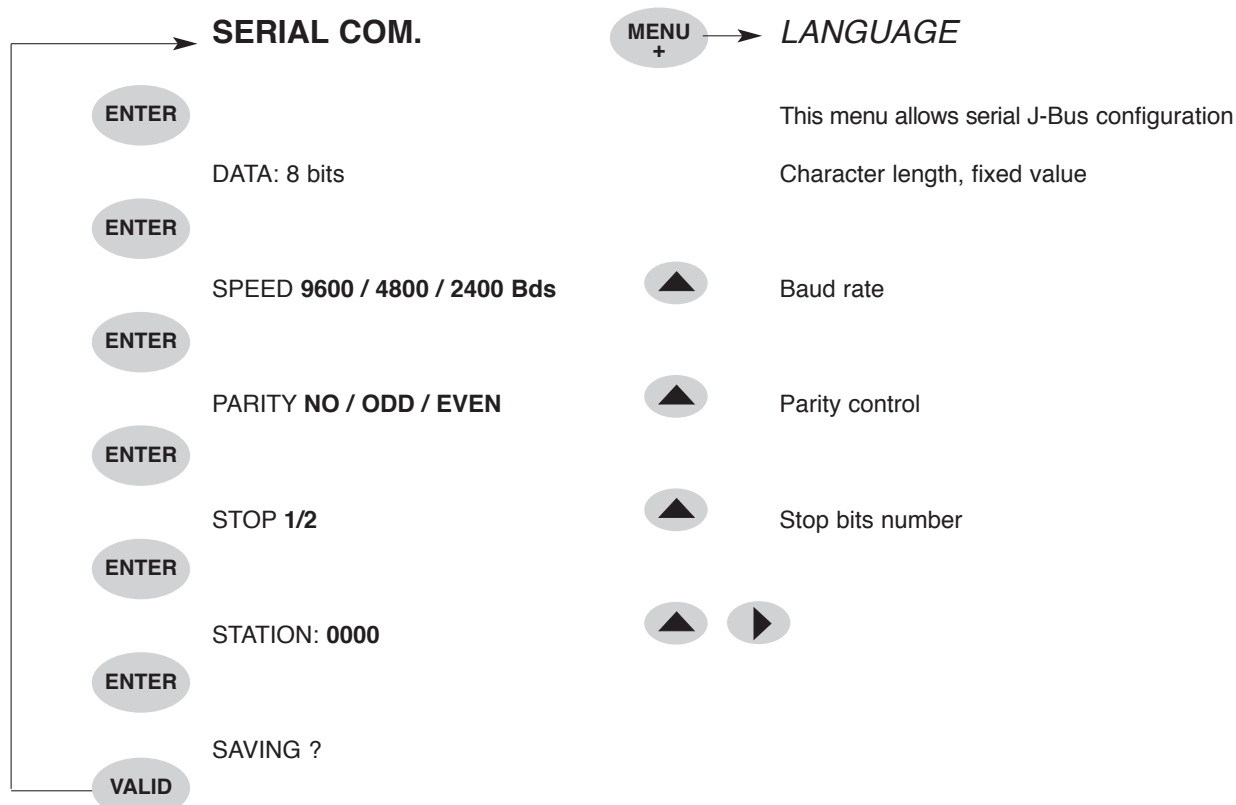
This menu sequence allows the format of Memory card for BAMOPHOX Logger as a FAT 16 (File Allocation Table / 16 bits). This is necessary to assure recording and storage of data on the Memory card.

Without MMC in the card reader of BAMOPHOX logger, an error message appears when saving is pressed.

3.4. FILE RECOVERY



3.5. SERIAL INTERFACE (except BAMOPHOX 451 LOG)



This menu allows serial J-Bus configuration

Character length, fixed value

Baud rate

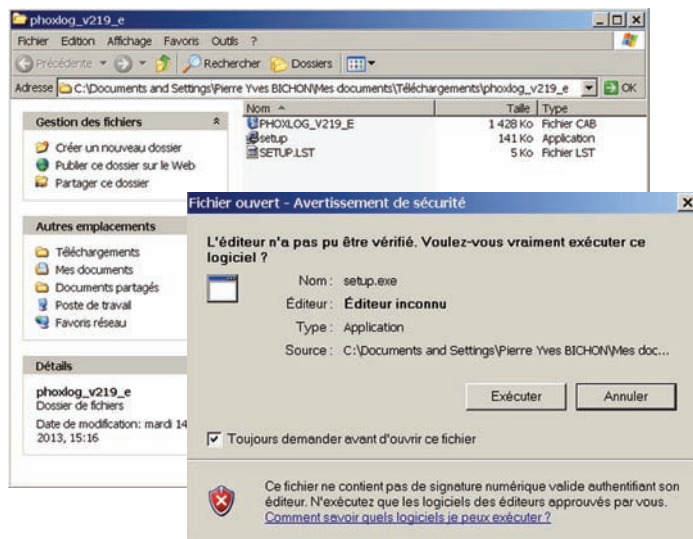
Parity control

Stop bits number

4. Software PHOXLOG

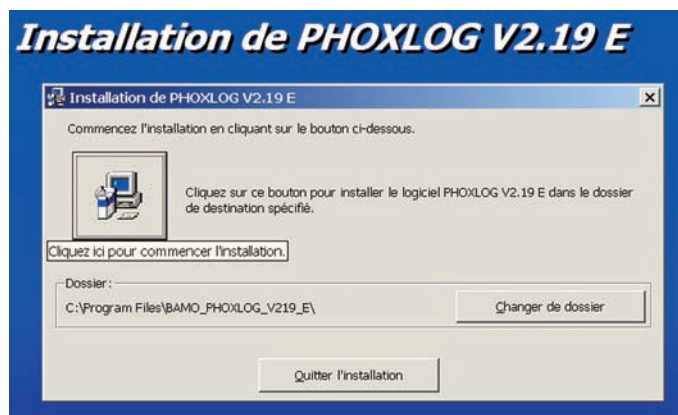
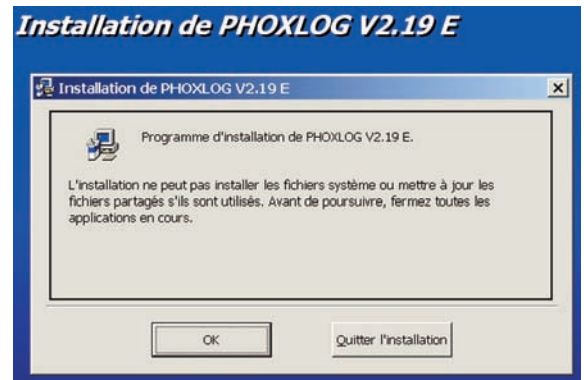
To install PHOXLOG software, you may use:

- CD supplied with the BAMOPHOX or,
- download latest version (zip file)
from <http://www.bamo.fr>

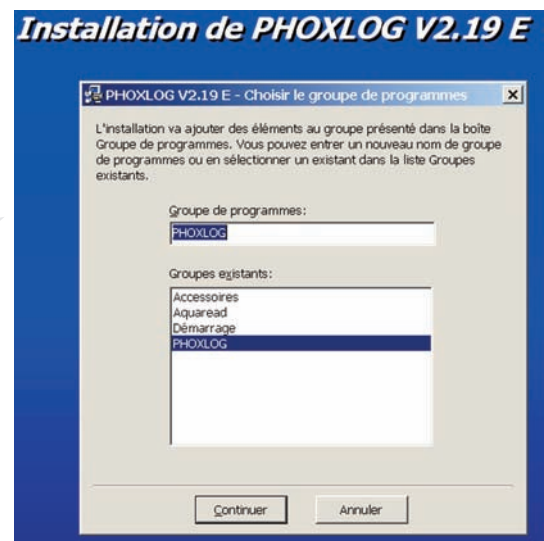


Unzip the file that contains like following: - PHOXLOG.CAB
- SETUP.EXE
- SETUP.LST

From **setup.exe** you start the installation.



Quitter l'installation: to quit the installation program
Cliquez ici pour commencer l'installation: click on icon to begin installation sequence
Changer de dossier: to change file for PHOXLOG software localization



To change file for PHOXLOG software localisation:
Groupe de programme: name of new software PHOXLOG
Groupes existants: existing software
Continuer: continue
Annuler: cancel



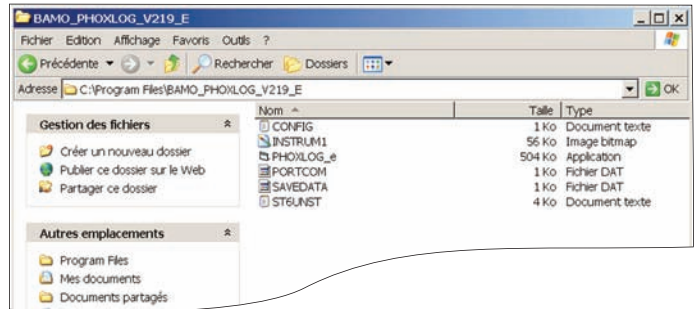
L'installation de PHOXLOG a réussi:
Install is successful

Now you can use the software from the starting menu.
If you keep the default installation parameters, the software
is located in **C:\Program Files\BAMO PHOXLOG**
In this menu tree, data files will be saved.

4.1 FILES

Existing files
in BAMO_PHOXLOG:

- CONFIG.TXT
- INSTRUM1.BMP
- PHOXLOG.EXE
- PORTCOM.DAT
- SAVEDATA.DAT
- ST6UNST.LOG



It is necessary that you create your own files to keep safely the data without a risk to delete an original record. These original record files cannot be corrupted, they will allow you to prove the historical of measurements.

- Original records
- pH measurement
- Flow rate measurement
- etc...

5 DATA DOWNLOADING

The BAMOPHOX Logger records measurements on a Memory Card.

Records are saved in a file named: BAMOPHOX.LOG.

Through a memory card reader, this file is saved on a PC and access to data is done with the software PHOXLOG.

The software creates 1 or 2 files (the second would be for the extension -blind BAMOPHOX- when existing) with a name corresponding to the main parameter (pH, flow,...) plus the serial number of the BAMOPHOX (example: ph-metre_20691-01.xls).

This file is a text type file, it could be read by any word processor or data sheet processor. Its extension is .xls for a quick opening in Excel.

How to proceed:

- Insert the memory card in the card reader
- **Card reading**

- a) – **Copy** the file **BAMOPHOX.LOG** from the memory card
- Past this file to your "Original records" menu tree.
- Rename it (date, station,...) still with the extension **.LOG**

Close the window

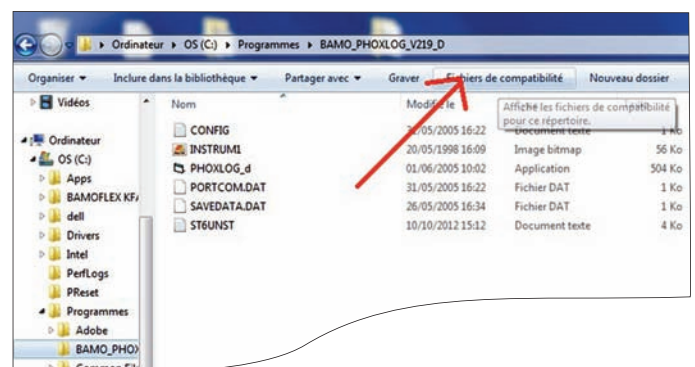
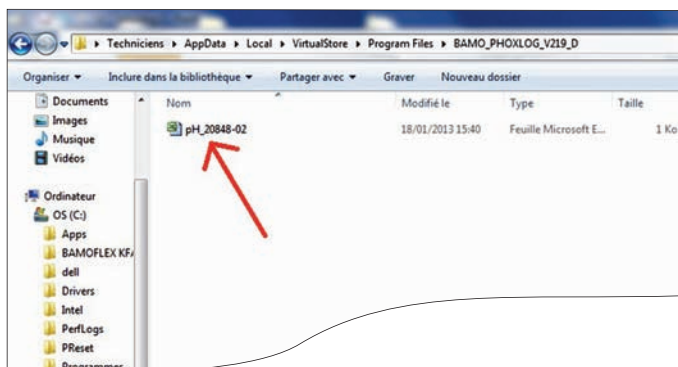
- b) – Open PHOXLOG
- Click on “**OK**” key
- In **LOGGER**, choose the application **Data Extraction** then choose your file in Original records then press key “**Extraction**”.

Close the window

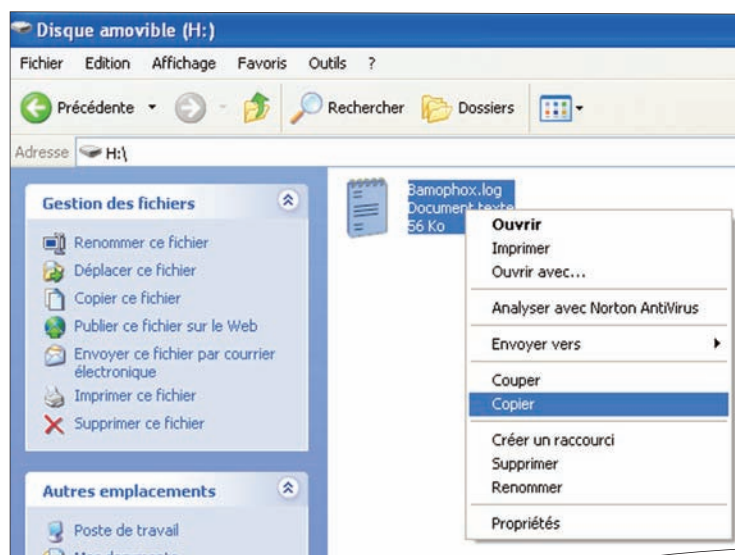
CAUTION: If you use **Windows 7**, you may have difficulties to find the data file.

Here is how to proceed :

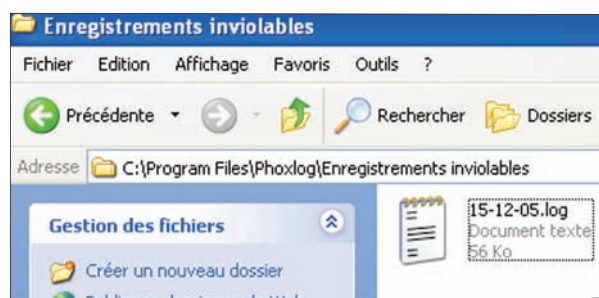
- Go to menu tree **BAMO PHOXLOG**
- Click on icon “**compatibility files**”
- Logically, file will appear in the window with the extension



PHOXLOG screen



Copy of original file



Configuration [Application]

Inputs configuration

CANCEL

Select	Measurement type	Origin	Identification
Inout 0	☒ Turbidity	2 Masti Ext.	NaCl
Inout 1	☒ Flow	5 Masti Ext.	Débit de Sortie
Inout 2	☒ Conductivity	3 Masti Ext.	pH de Sortie
Inout 3	☒ NaOH	4 Masti Ext.	C_Tor

OK

PHOXLOG V 2.19

File Configuration Measurement Logger

Init./Erase file
Data Extraction

PHOXLOG V 2.19

File Configuration Measurement Logger

PHOXLOG V 2.19 [logger data file]

File selection

TEST_2013.log

c:\

Program Files
BAMO_PHOXLOG_V219_E
ORIGINAL RECORDS

Resetfile Extraction

Cancel

PHOXLOG V 2.19

File Configuration Measurement Logger

PHOXLOG V 2.19 [logger data file]

File selection

TEST_2013.log

c:\

Program Files
BAMO_PHOXLOG_V219_E
ORIGINAL RECORDS

Resetfile Extraction

Cancel

70712: 16/6/9 1450 694-200 00067909

BAMOPHOX_Logging

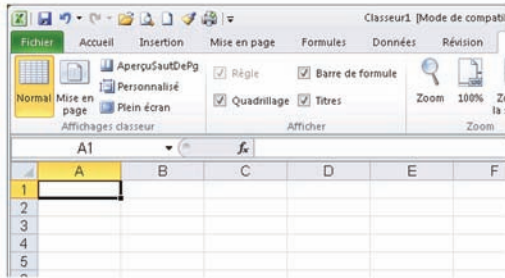
End of extraction

OK

6. DATA PRESENTATION

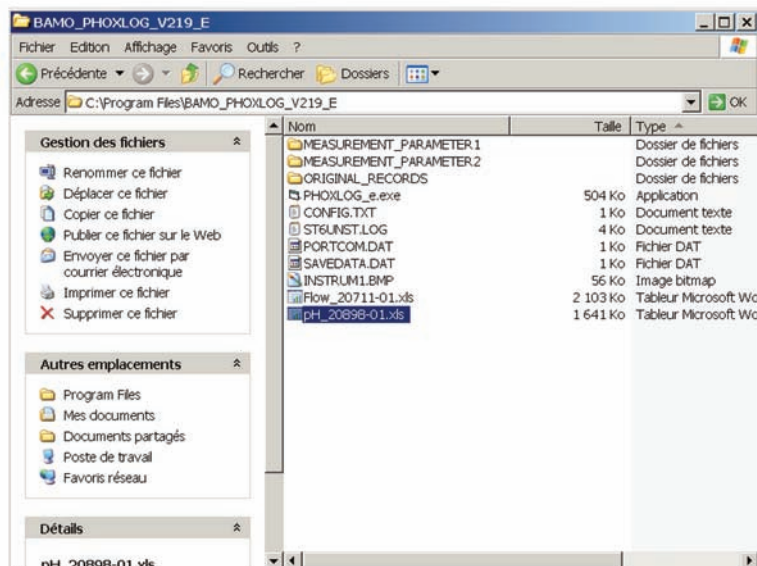
How to proceed:

First of all open your spreadsheet software.



When data are loaded (please refer to § 6.2):

- a) – go to menu tree **BAMO_PHOXLOG**
- **select the file(s)** with extension **.xls**
- **rename** the file(s) if necessary **or** double click to **open it**



	A	B	C	D	E
1	Logger :	20898-01			
2					
3	pH				
4					
5	Date	Time	pH	-C	
6	23/01/2008	14:24	4,31	18,5	
7	23/01/2008	14:25	4,3	18,4	
8	23/01/2008	14:26	4,3	18,4	
9	23/01/2008	14:27	4,58	15,6	
10	23/01/2008	14:28	4,68	13,6	
11	23/01/2008	14:29	4,71	15,2	
12	23/01/2008	14:30	4,73	16,1	
13	23/01/2008	14:31	4,73	16,8	

From Original files (cannot be corrupted)

- b) – **Open** the application **PHOXLOG**
- Click on “OK” key
- In **LOGGER** choose the application **Data Extraction** then choose **Original records**
- **Select** the file ***.LOG** on the left side windows
- then “**Extraction**”
- When ready valid “**OK**”, Data Extraction is done
- **Quit** the application **PHOXLOG**

To work with your data: same as **a)** sequence in the file **BAMO_PHOXLOG**

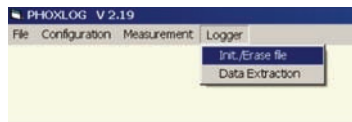
7 MEMORY CARD USE

To procure more space on the memory card, it is necessary to delete old recorded data.

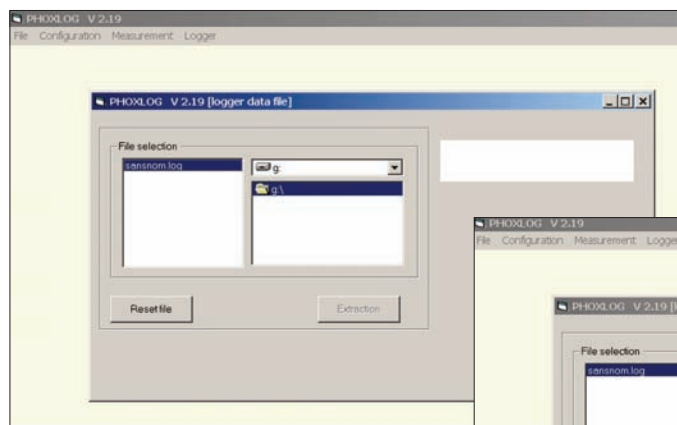
This operation can only be done after BAMOPHOX.log files downloading from memory card to computer and only after this operation.

And this operation can only be done from PHOXLOG software

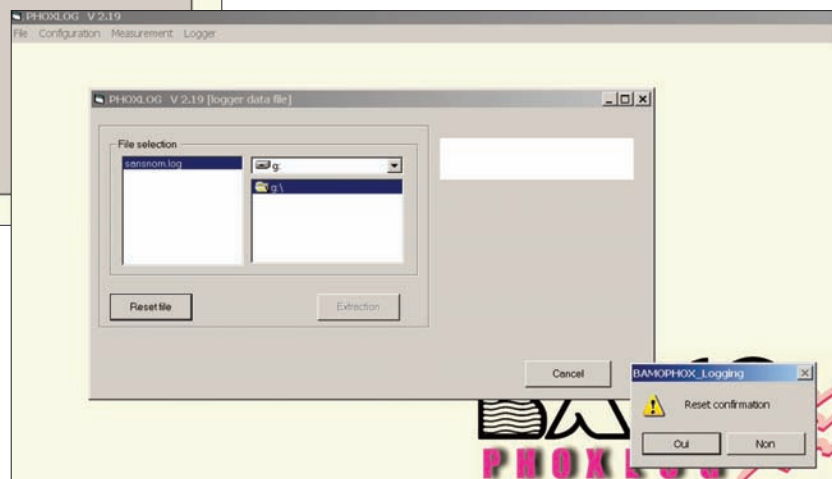
How to proceed:



- Open **PHOXLOG** software
- Click on “**OK**” key
- In tab **Logger**, choose **Init./Erase file**



- Select file with extension **.log**
- Press “**reset file**” key
- Confirm reset by pressing “**Oui**” key



The memory card is ready to use for recording with increased capacity.

Parameters available for pH, ORP, Resistivity, Conductivity, Concentration, Chlorine, Dissolved Oxygen, Turbidity:

1 record is: DATE / TIME / MEASUREMENT / TEMPERATURE

Parameters available for Flow rate:

1 record is: DATE / TIME / MEASUREMENT / TEMPERATURE / TOTALIZATION

Number of records:

Memory card is 32 Mo capacity used on PHOXLOG format, identical to 31 948 800 octets.

1 record use (main instrument or main instrument + extension unit) 21 octets

Records available: 1 521 371

CAUTION: take caution not to overpass the spreadsheet capacity for data presentation if you do not use an Excel software.

- Excel is 178 000 lines, if you record once every minute during 123 days,
the total number of records is 1 x 60 x 24 x 123 --> 177 120 records

8. INPUTS CONFIGURATION

NOTE: except BAMOPHOX 451 LOG

Configuration [Application]

Inputs configuration

CANCEL

Select	Measurement type	Origin	Identification
Input 0 ☒	Turbidity	2 ☒ Masti ☐ Ext.	NaCl
Input 1 ☒	Flow	5 ☒ Masti ☐ Ext.	Débit de Sortie
Input 2 ☒	Conductivity	3 ☒ Masti ☐ Ext.	pH de Sortie
Input 3 ☒	NaOH	4 ☒ Masti ☐ Ext.	C_Tor

OK

To switch on a terminal

Measurement parameter

Terminal number

The selected value must be the same
BAMOPHOX setting value.

Base: Main unit
Ext: Extension unit

Yoyr TAG or description
for terminal

This will appears on the
windows "Monitoring"

