USER MANUAL

Option LOOGGER & RS 422 for BAMOPHAR PHOXLOG	MES
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SUMMARY

1.   PRECAUTIONS

• The memory card supplied with the BAMOPHAR is ready for use.
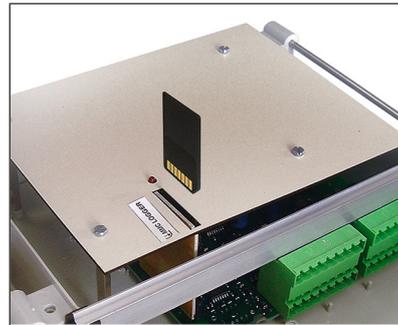
CAUTION

- **The memory card must be used exclusively for recording data on the BAMOPHAR.**
- **You must not save any other data on this memory card.**
- **When used on another device (camera, file backup on computer ...), the data from BAMOPHAR will no longer be recoverable by PHOXLOG.**
- **The saved bamophox.log file on the memory card must be deleted with help of PHOXLOG software and only.**
- **Never delete or rename the bamophox.log file on the memory card from "Windows Explorer".**
- **Never format the memory card from "Windows".**
  Otherwise, you will need to format the memory card after it has been inserted into the BAMOPHAR.

2.   FIRST COMMISSIONING

Before inserting the memory card, proceed as follows:

1) Connect the BAMOPHAR to the main supply.
2) Check the clock through the main menu
3) Choose the recording period
4) Locate the memory card as it appears on below pictures.
   Insert the memory card, only when the red LED is off.
   Do not remove or insert the memory card when the red LED is lighted.

5) Data recording is done every "x" minutes.
   During 5 seconds the red LED lights on during the record.

BAMOPHAR does not have an internal memory for data storage, it is therefore imperative to insert a memory card to store the measurements.
Without memory card, no measurements can be stored.

3. SETTINGS ON THE BAMOPHAR

3.1 DATE AND CLOCK ADJUSTMENT

Go to the menu CLOCK

31/12/2017	*Current date day/month/year; Format: dd/mm/yyyy*
	Confirm to go to the next step
21 : 37 : 04	*Time: 0...24 hours clock; Format: hours/ minutes/ seconds*
	Then confirm
ADJUSTING YES / NO	Access to adjustment of date and time
	Choose YES and confirm
YEAR 2017	Enter the year: 4 digits, then confirm
MONTH 0012	Enter the month: 00xx; then confirm
DAY 0031	Enter the day: 00xx; then confirm
HOUR 0018	Enter the hour: 00xx; then confirm
MINUTES 0015	Enter the minutes: 00xx, then confirm
SAVE ?	To record the settings, press the icon SAVE.

3.2 RECORDING PERIOD

Go to the menu RECORD PERIOD

BETWEEN 1 AND 60 MIN	This setting allows you to set the time interval between 2 records.
	Confirm to go to the next step
PERIOD 0001 MIN	Enter a value 00xx: between 0001 and 0060 minutes; then confirm
SAVE ?	To record the settings, press the icon SAVE.

3.3 FORMAT OF MEMORY CARD

This menu should be used to format th ememory card, dedicated to record the measurements of your BAMOPHAR.
The formatting of this card is specific to its use on the BAMOPHAR therefore cannot be carried out by any other means.
Go to the menu FORMAT MMC

SAVE ?	To record the settings, press the icon SAVE.

J-Bus INTERFACE
Go to the menu SERIAL COM.

4. INSTALL PHOXLOG ON YOUR COMPUTER

PHOXLOG software is on the CD (with the BAMOPHAR) or download it on http://www.bamo.fr/cbx/s4_load91382.htm

1) Unzip the file .ZIP
It includes 3 files:

PHOXLOG.CAB
SETUP.EXE
SETUP.LST

2) Double click on: **SETUP.EXE**
Then click on: **RUN (exécuter)**

3) The window "Installation PHOXLOG" opens.
Click on: **OK**

4) Install the application where it may load by default, or choose where you wish to load it.

5) Select or modify the program group title
Click on: **CARRY ON (CONTINUER)**

Once the installation is complete, click on: **OK**

You can start PHOXLOG from the start menu.
With the default installation settings, the software is located in C:Program FilesBAMO_PHOXLOG
Data from logger BAMOPHAR wil be saved in this location.

4.1   PREPARE FILES OF RECORDS

Files in the BAMO_PHOXLOG folder:

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

We recommend that you create folders in order to preserve your recordings without the risk of erasing the original file.
Examples :
- Recorded original data
- pH measurements
- Flow rate measurements
- etc.

5.   DATA DOWNLOADING

The option Logger allows record of 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 it is possible with the software PHOXLOG.
The software creates 1 or 2 files (the second would be for the extension unit when in use) with a name correspondingto the main parameter (e.g. pH, flow, ...) plus the serial number of the BAMOPHAR (e.g. ph-metre_20691-01.xls).

This file is a text type file, it could be read by any word processor or data sheet processor.
For an easy opening with Excel (very often used), the file extension is .xls which allows the automatic launch of the spreadsheet.

Proceed as follows:

a)	**Insert the memory card in the card reader**
Copy the file BAMOPHOX.LOG from the memory card	**BAMOPHOX.LOG**
Paste the file in the folder	**Enregistrements_INVIOLABLES (uncorruptible records)**
Rename it	
Keep the extension	**.LOG**
Then close the window	

b)	**Open the software PHOXLOG**
Click on	**"OK"**
Go to the tab	**Extractions Données (Data retrieval)**
Choose the source file in:	**Enregistrements inviolables (Uncorruptible records)**
Click on	**"Extraction" (retrieval)**

Then close the window
With Windows 7, you may have difficulties to find the data file.

Please proceed as follows:

Go to menu tree	**BAMO PHOXLOG**
Click on	**''Fichier de compatibilité'' (compatibility files)**

File will appear in the window with the extension.***

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6. DATA ANALYSIS

Proceed as follows:

Open your spreadsheet software
Once data are loaded:
a)
Go to menu tree   **BAMO_PHOXLOG**
Select the file(s) with extension .xls   **.xls**
If necessary, rename the file(s)
or open file(s)   **DOUBLE CLICK**

From Original files (cannot be corrupted)
b)
Open the software   **PHOXLOG**
Confirm with   **"OK"**
In LOGGER select   **"Extraction données" (data retrieval)**
                                                                               "Enregistrements inviolables" (uncorruptible records)
Select the file in the left window   ***.LOG**
Click on   **"Extraction"**
Once the message "Fin d'extraction" (end of retrieval) appeared
Confirm with "OK"
Exit the application   **PHOXLOG**
To display the result:
Open the folder   **BAMO_PHOXLOG**
Follow the procedure a)

7. MEMORY CARD CAPACITY

To free space on the memory card, it is necessary to erase old records.
This operation should only be performed after saving the records from the memory card to the computer and only afterwards.

This operation is carried out only from PHOXLOG following each step of the procedure:

Run the software   **PHOXLOG**
Confirm with   **"OK"**
from the tab LOGGER:
Select   **"Init./RAZ fichier" (Initialize/erase file)**
Select the file with extension   **.log**
Choose   **"RAZ Fichier" key (erase file)**
Confirm with   **"Oui" (Yes)**

*** The memory card can now be used for recording. ***

Available parameters for: pH, ORP, resistivity, conductivity, concentration, chlorine, dissolved oxygen, turbidity:
1 record includes: **DATE / TIME / MEASUREMENT / TEMPERATURE**

Available parameters for: FLOW RATE
1 record includes: **DATE / TIME / MEASUREMENT / TEMPERATURE / TOTAL VOLUME**

Recording capacity:
Cpacity of memory card is 32 Mo (31 948 800 octets) filled in format PHOXLOG.
For any kind of BAMOPHAR configuration (alone or BAMOPHAR + extension unit): 21 octets are assigned for each record.
Memory card can store up to 1,521,371 records.

Ensure that its content does not exceed the spreadshee capacity, otherwise the recorded data can not be recovered. (on Excel: max. is 178 000 lines).

CAUTION
For 1 record per minute, over a period of 123 days, the number of records is:
1 x 60 x 24 x 123 =   **—> 177 120 records**

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