

# INSTRUCTION MANUAL

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# LINE OF USB TYPE DATA LOGGERS

**MAXI**  **TRACK**

MaxiTrack Sensors

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# MODELS AND TYPES OF SOFTWARE AVAILABLE

## MaxiThermal-2 Software / Supported Models:

**2ctemp-USB** - Ref. 20.1025

**MaxiLog Multiple Use MIN MAX** - Ref. 20.2412

**MaxiLog CRYO** – Ref. 20.1100

**MaxiLog Multiple Use** - Ref. 20.1083

**MaxiLog SU** - Ref. 20.1080 (Version Single Use)

**3ctemp-RH** – Ref. 20.1031

**MaxiLog-RH** – Ref. 20.1007

**MaxiLog-RH** – Ref. 20.1055 (Version Single Use)

**edl-RTD2** - Ref. 20.1099

**edl-XYZ** - Ref. 20.1110

# MODELS AND TYPES OF SOFTWARE AVAILABLE

## MDAS-X Software / Supported Models:

**3ctemp-RH** – Ref. 20.1031

**MaxiLog-RH** – Ref. 20.1007

**MaxiLog-RH** – Ref. 20.1055 (Version Single Use)

**ctemp-USB-80 Gen2** – Ref. 20.1026 (Version Single Use)

**EZ Logger Hi Temp.** – Ref. 20.1033

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# INTRODUCTION

## CONGRATULATIONS FOR PURCHASING THIS PRODUCT!

Your company has just purchased a product manufactured in accordance with ISO 9001: 2015 and CE Mark standards, having been tested for functionality before shipping to the customer.

Please read this document carefully and familiarize yourself with the operation of the instrument before using it. Keep this Instruction Manual on hand for reference whenever necessary.



### **Safety precautions and information:**

Please read this document carefully and familiarize yourself with the operation of the instrument before using it. Keep this Instruction Manual on hand for reference whenever necessary.



### **“Rabates” Program (Reverse Logistics):**

All items in our line of Wireless Transmitters and Data Loggers can be returned to one of our manufacturing units located in the United States, Vietnam, China or Brazil. Contact our Technical Support and receive additional information.

# LINE



# 2CTEMP-USB | REF. 20.1025

**Note:**

The 2ctemp-USB model is compatible with the MaxiThermal-1 Software. Request the installation link from our Technical Customer Support area.

# TECHNICAL CHARACTERISTICS - 2CTEMP-USB

Memory / Storage	8k memory (approximately 8,000 measurements)
Scale	-29 +72 ° C
Alarm Programming	User configuration. The limits of high and low alarms can be set.
Recording intervals	Programmable from 2 seconds by reading. (Refer to the Duration Table for get examples)
High and low alarm limits	LED alarm indicator
Interface	USB cable
Food	3.0 V lithium coin battery with life useful for approx. 1 year
Tamanho e peso	Accommodation 90 x 5,0 x 1,6 (cm) 52,5 gramas
CE certified	Yes
Accommodation	IP-66
Software MaxiThermal	Key features: Summary and statistics of report • File manager • Attachment note • Zoom • Time display Elapsed or Date / Time Display recorded • Celsius, Fahrenheit or Kelvin • 3D viewing option
Guarantee	6 meses

Specifications subject to change without notice.



# TECHNICAL CHARACTERISTICS - 2CTEMP-USB

INTERVALO	AUTONOMIA DE GRAVAÇÃO
2 seconds	4 hours and 8 minutes
6 seconds	12 hours and 25 minutes
10 seconds	20 hours and 42 minutes
30 seconds	2 Days 14 hours 7min
1 minute	5 Days 4 hours 14 min
5 minutes	25 Days 21 hours 10 min
10 minutes	51 Days 18 hours 20 min
30 minutes	155 Days 7 hours 0 min
1 hour	310 Days 14 hours 0 min

# MAXILOG MULTIPLE USE MIN MAX - REF. 20.2412

LAYOUT / Front View



# TECHNICAL CHARACTERISTICS - MAXILOG MULTIPLE USE MIN MAX

Memory / Storage	8k memory (approximately 8,000 measurements)
Scale	-40°C to +85°C / -40°F to +185°F
Precision	±0.5°C at 0° to 10°C / ±2.0°C at extremes 0.9°F at 32° to 50°F / 3.6°F at extremes
Recording intervals	Programmable from 2 seconds by reading. (Refer to the Duration Table for get examples)
High and low alarm limits	LCD display screen
Computer interface / External probe	USB cable / Reader Station. / PT-1000. Length: 12.7cm (5.0in) Cable & Probe Length: 50.8 cm (20.0in)
Food	3.0 V lithium coin battery with life useful for approx. 1 year
Size and weight	5,5 x 2,7 x 1,4 (cm) 19 gramas
Certificado CE	Yes
Accommodation	IP-66
Software MaxiThermal	Key features: Summary and statistics of report • File manager • Attachment note • Zoom • Time display Elapsed or Date / Time Display recorded • Celsius, Fahrenheit or Kelvin • 3D viewing option
Guarantee	6 meses

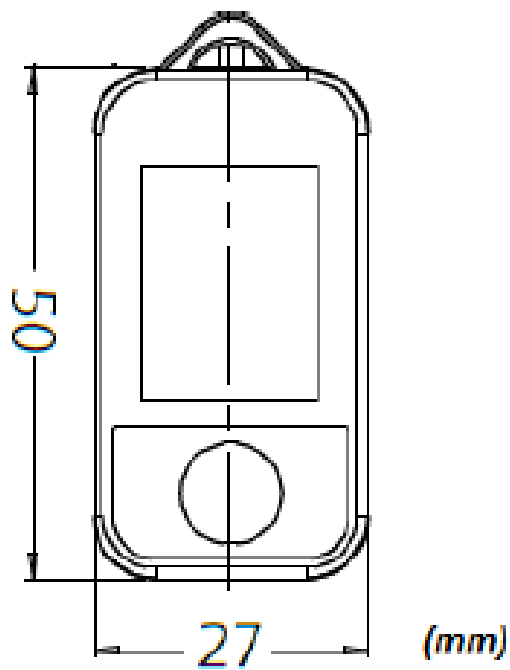
Specifications subject to change without notice.

# TECHNICAL CHARACTERISTICS - MAXILOG MULTIPLE USE MIN MAX

INTERVALO	AUTONOMIA DE GRAVAÇÃO
2 seconds	4 hours e 8 minutes
6 seconds	12 hours e 25 minutes
10 seconds	20 hours e 42 minutes
30 seconds	2 days 14 hours 7min
1 minute	5 days 4 hours 14 min
5 minutes	25 days 21 hours 10 min
10 minutes	51 days 18 hours 20 min
30 minutes	155 days 7 hours 0 min
1 hour	310 days 14 hours 0 min

# MAXILOG CRYO - REF. 20.1100

LAYOUT / Front View



# TECHNICAL CHARACTERISTICS - MAXILOG CRYO

EEPROM Memory, Storage	8k memory - approximately 8,000 measurements
Scale	-200 +72 °C
Accuracy (NIST traceable)	± 0,5 °C (0 ~ 10 °C) / ± 2,0 °C at the ends of the scale
Recording intervals	Programmable from 2 seconds by reading. (Refer to the Duration Table for get examples)
MAX and MIN limits	Display Signage
Interface Type	Reading Base + USB Cable
External Probe	Type Pt-1000 with stainless steel rod / Length 120 mm Cable length: 500 mm
Size and weight	5,0 cm (l) x 2,7 cm (w) x 0,8 cm (h)) 30 grams
Certificado CE	Yes
Accommodation	IP-66
MaxiThermal software	Key features: Summary and statistics of report • File manager • Attachment note • Zoom • Time display Elapsed or Date / Time Display recorded • Celsius, Fahrenheit or Kelvin • 3D viewing option
Guarantee	6 months

specifications subject to change without notice.

# TECHNICAL CHARACTERISTICS - MAXILOG CRYO

INTERVALO	AUTONOMIA DE GRAVAÇÃO
2 seconds	4 hours e 8 minutes
6 seconds	12 hours e 25 minutes
10 seconds	20 hours e 42 minutes
30 seconds	2 days 14 hours 7min
1 minute	5 days 4 hours 14 min
5 minutes	25 days 21 hours 10 min
10 minutes	51 days 18 hours 20 min
30 minutes	155 days 7 hours 0 min
1 hour	310 days 14 hours 0 min

# MAXILOG MULTIPLE USE - REF. 20.1083

## MAXILOG SU - REF. 20.1080 (Single Use version)

### LAYOUT / Front View



### IMPORTANT:

The Data Logger Ref. 20.1080 is factory programmed for single use (Single Use / Disposable). Thus, once the START button is pressed, it will not be able to receive new programming.



# TECHNICAL CHARACTERISTICS

## - MAXILOG MULTIPLE USE

EEPROM Memory, Storage	8k memory - approximately 8,000 measurements
Scale	-35+ 50 °C
Precision	± 0,2 °C (0 ~ 10 °C) / ± 1,0 °C at extremes of scale
Recording intervals	Programmable from 2 seconds by reading. (Refer to the Duration Table for get examples)
High and low alarm limits	LCD display screen.
Computer Interface	Reading Base + USB Cable
Food	3.0 V lithium coin battery with service life of approx. 1 year
Size and weight	5,5 x 2,7 x 1,4 (cm) 19 grams
Certificado CE	Yes
Accommodation	IP-66
Software MaxiThermal	Key features: Summary and statistics of report • File manager • Attachment note • Zoom • Time display Elapsed or Date / Time Display recorded • Celsius, Fahrenheit or Kelvin • 3D viewing option
Guarantee	6 monthrs

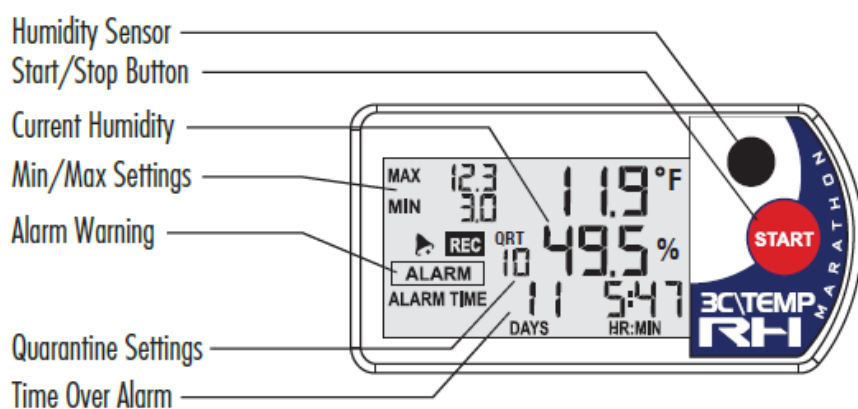
Specifications subject to change without notice.

# TECHNICAL CHARACTERISTICS - MAXILOG CRYO

INTERVALO	AUTONOMIA DE GRAVAÇÃO
2 seconds	4 hours e 8 minutes
6 seconds	12 hours e 25 minutes
10 seconds	20 hours e 42 minutes
30 seconds	2 days 14 hours 7min
1 minute	5 days 4 hours 14 min
5 minutes	25 days 21 hours 10 min
10 minutes	51 days 18 hours 20 min
30 minutes	155 days 7 hours 0 min
1 hour	310 days 14 hours 0 min

# 3CTEMP-RH – REF. 20.1031

## LAYOUT / Front View



# CHARACTERISTICS TECHNIQUES - 3CTEMP-RH

EEPROM Memory, Storage	8k (7,680 recordings)
Internal temperature sensor	Microfilm / NTC
Operation Range Accuracy - Temperature	-29 +72 °C ± 0.2 ° C (0 ~ 10 ° C) ± 0.5 ° C at the end of the scale
Temperature resolution	0,1 °C
Humidity sensor	Capacitive MEMs
Humidity range	0 ~ 100% RH
Accuracy - Relative Air Humidity	± 0.3% RH (0 to 80% RH). ± 5% at the extremes of the scale
Humidity resolution	0.1%
Measuring ranges	Programmable from 2 seconds. (See the Interval Table for examples)
MAX and MIN limits	Display Signage
Computer interface	USB / Mini B port.
Power supply	CR2450 battery. Operating life of approx. 2 years
Weight	33 grams
Certificado CE	Yes
Guarantee	6 monthrs

Specifications subject to change without notice.

# TECHNICAL CHARACTERISTICS - 3CTEMP-RH

INTERVALO	AUTONOMIA DE GRAVAÇÃO
2 seconds	4 hours e 8 minutes
6 seconds	12 hours e 25 minutes
10 seconds	20 hours e 42 minutes
30 seconds	2 days 14 hours 7min
1 minute	5 days 4 hours 14 min
5 minutes	25 days 21 hours 10 min
10 minutes	51 days 18 hours 20 min
30 minutes	155 days 7 hours 0 min
1 hours	310 days 14 hours 0 min

# MAXILOG-RH – REF. 20.1007

# MAXILOG-RH – REF. 20.1055

Version Single Use

## LAYOUT / Front View



The Maxilog-RH Model does not require the use of an Interface cable and has a direct USB interface built into the Data Logger itself.

### **IMPORTANT:**

The Data Logger Ref. 20.1055 is factory programmed for single use (Single Use / Disposable). Thus, once the START button is pressed, it will not be able to receive new programming.

# CHARACTERISTICS TECHNIQUES - MAXILOG-RH

EEPROM Memory, Storage	16k: 8K per channel approximately 8,000 measurements
Internal temperature sensor	Wired chip in glass thermistor
Operation Range Accuracy - Temperature	-29 +72 °C ± 0.2 ° C from 0 ° C to 10 ° C, ± 0.6 ° C at the end of the scale
Temperature resolution	0,1 °C
Humidity sensor	Sensirion SHT-30
Humidity range	0 ~ 100 %RH
Accuracy - Relative Air Humidity	+/- 2%, +/- 4% at the ends
Humidity resolution	0.1%
Measuring ranges	Programmable from 2 seconds. (See the Interval Table for examples)
MAX and MIN limits	Display Signage
Computer interface	USB port. (The Maxilog-RH Model does not require Cable interface and has direct USB interface incorporated into the Data Logger itself)
Power supply	CR2032 Lithium Battery.
Size Weight	8,8cm (L) x 3.5 cm (W) x 1.5 cm (H) 32 grams
Certificado CE	Yes
Software MaxiThermal2	Key features: Summary and statistics of report • File manager • Attachment note • Zoom • Elapsed time display or Date / Time Recorded view • Display Celsius, Fahrenheit or Kelvin • 3D viewing option
Guarantee	6 monthrs

Specifications subject to change without notice.

# TECHNICAL CHARACTERISTICS - MAXILOG-RH

INTERVALO	AUTONOMIA DE GRAVAÇÃO
2 seconds	4 hours
6 seconds	12 hours
10 seconds	21 houts
30 seconds	2 days 16 hours
1 minutes	5 days 9 hours
5 minutes	27 days 1 hours
10 minutes	54 days 2 hours
30 minutes	162 days 6 hours
1 hour	324 days 12 hours



# EDL-RTD2 - REF. 20.1099

LAYOUT / Front View



# CHARACTERISTICS TECHNIQUES - EDL-RTD2

EEPROM Memory, Storage	64k of memory (approximately 64,000 measurements)
Internal temperature sensor	IN: -29 + 72 °C   OUT: -29 +380 °C
Precision	± 0.2 °C to 2 ° to 10 ° C / ± 2.0 ° C at extremes of scale
Recording intervals	Programmable from 2 seconds per reading. (See the Duration Table for examples.)
High and low alarm limits	LCD display screen.
External Probe	120 mm stainless steel tip 510 mm teflon-coated flexible cable
Power supply	3.0 V lithium coin battery with a service life of approx.1 n
Size Weight	9,0 x 5,0 x 2,8 (cm) 95 grams
Computer interface	USB port.
Power supply	CR2032 Lithium Battery.
Accommodation	IP-66
Certificado CE	Yes
Software MaxiThermal	Key features: Summary and statistics of report • File manager • Attachment note • Zoom • Elapsed time display or Date / Time Recorded view • Display Celsius, Fahrenheit or Kelvin • 3D viewing option
Guarantee	6 monthrs

Specifications subject to change without notice.

# CARACTERÍSTICAS TÉCNICAS - EDL-RTD2

INTERVALO	AUTONOMIA DE GRAVAÇÃO
2 seconds	1 day 10 hours 24 min
6 seconds	4 days 7 hours 13 min
10 seconds	7 days 4 hours 1 min
30 seconds	21 days 12 hours 5 min
1 minutes	43 days 0 hour 10 min
5 minutes	215 days 0 hour 50 min
10 minutes	430 days 1 hour 40 min
30 minutes	1290 days 5 hours 0 min
1 hour	2580 days 10 hours 0 min

# EDL-XYZ - REF. 20.1110

LAYOUT / Front View



# CHARACTERISTICS TECHNIQUES - EDL-XYZ

EEPROM Memory, Storage	8k of memory (approximately 8,000 measurements)
Temperature / Humidity / Vibration Scale	29 ° C to + 72 ° C / -20 ° F to + 162 ° F.0% to 100% / ± 3% from 25% to 75%, ± 5% to ends. /
Precision	± 0.2 ° C to 10 ° to 30 ° C / ± 0.5 ° C to extremes / 0.36 ° F to 50 ° to 86 ° F / 0.9 ° F to extremes
Recording intervals	Programmable from 2 seconds per reading. (See the Duration Table for examples.)
High and low alarm limits	LCD display screen.
Computer interface	USB cable
3-D Accelerometer	Range: ±2G; ±4G; ±8G; ±16G Sampling rate: 400 Hz Accuracy: ±0.05G for 0 to 16G Resolution: ±0.01G for 0 to 16G
Power supply	3.0 V lithium coin battery with a service life of approx.1 n
Size Weight	9,0 x 5,0 x 2,8 (cm) 95 grams
Computer interface	USB port.
Power supply	CR2032 Lithium Battery.
Accommodation	IP-66
Certificado CE	Yes
Software MaxiThermal	Key features: Summary and statistics of report • File manager • Attachment note • Zoom • Elapsed time display or Date / Time Recorded view • Display Celsius, Fahrenheit or Kelvin • 3D viewing option
Internal Firmware	Measurement data, firmware version, number of series, model type.
Guarantee	6 monthrs

Specifications subject to change without notice.

# TECHNICAL CHARACTERISTICS - EDL- XYZ

INTERVALO	AUTONOMIA DE GRAVAÇÃO
2 seconds	1 day 10 hours 24 min
6 seconds	4 days 7 hours 13 min
10 seconds	7 days 4 hours 1 min
30 seconds	21 days 12 Hr 5 min
1 minute	43 days 0 Hr 10 min
5 minutes	215 days 0 Hr 50 min
10 minutes	430 days 1 Hr 40 min
30 minutes	1290 days 5 Hr 0 min
1 hour	2580 days 10 horas 0 min

# CTEMP-USB-80 GEN2 – REF. 20.1026

## LAYOUT / Front View



The Model ctemp-USB-80 Gen2 does not require the use of an Interface cable and has a direct USB interface built into the Data Logger itself.

### **IMPORTANT:**

The Data Logger Ref. 20.1026 is factory programmed for single use (Single Use / Disposable). Thus, once the START button is pressed, it will not be able to receive new programming.

# TECHNICAL CHARACTERISTICS- CTEMP-USB-80 GEN2

Memory / Storage	8k of memory (approximately 8,000 measurements)
Sensor / Scale	Precision NTC Thermistor -80 ~ +30 °C Accuracy: ±0.5°C at 0° to 10°C, ±2.0°C at extremes / ±0.9°F at 32° to 50°F, ±3.6°F at extremes
Precision	+/- 0,5 °C (0 ~ 10 °C) / +/- 2 °C (Extreme)
Min and Max alarm limits	Por Leds frontais
Computer interface	USB cable
Size Weight	98.8 x 5.0 x 2,8 (cm) 85 grams
Accommodation	IP-66
Computer interface	USB built into the Data Logger.
Power supply	CR2032 Lithium Battery.
Certificado CE	Yes
Software MDAS-X	Key features: Report summary and statistics • File manager • Note attachment • Zoom • Display of elapsed time or Date / Time Recorded view • Celsius display, Fahrenheit or Kelvin • 3D viewing option .Automatic PDF report generation (necessary to install the Software)
Power supply	1xCR2450 coin battery - 3.6 V lithium with service life of approx 1 year

Specifications subject to change without notice.



# TECHNICAL CHARACTERISTICS-CTEMP- USB-80 GEN2

INTERVALO	AUTONOMIA DE GRAVAÇÃO
2 seconds	4 hours 8 min
6 seconds	12 h 25 min
10 seconds	20 h 42 min
30 seconds	2 days 14 Hr 7 min
1 minute	5 days 4 hours 14 min
5 minutes	25 days 21 hours 10 min
10 minutes	51 days 18 hours 20 min
30 minutes	155 days 7 hours 0 min
1 hour	310 days 14 hours 0 min

# EZ LOGGER HI TEM – REF. 20.1033

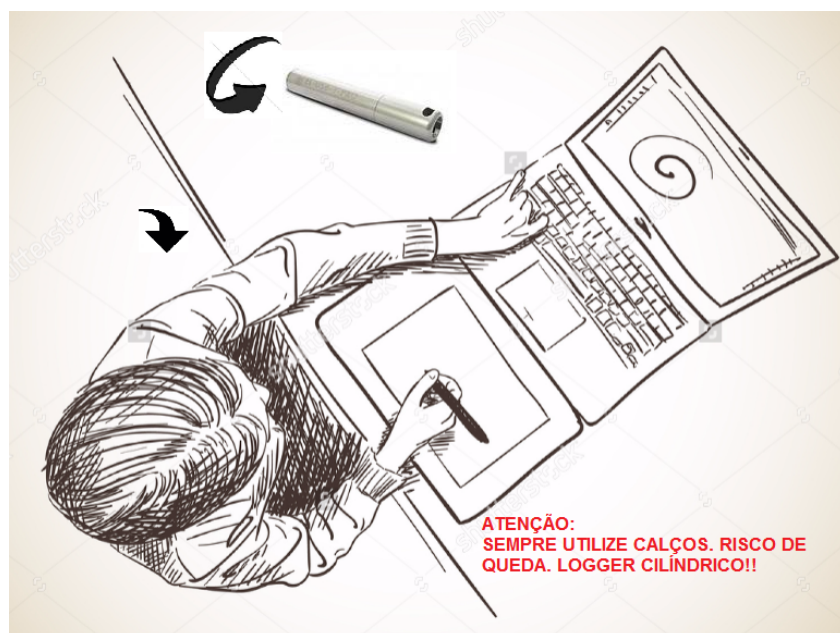
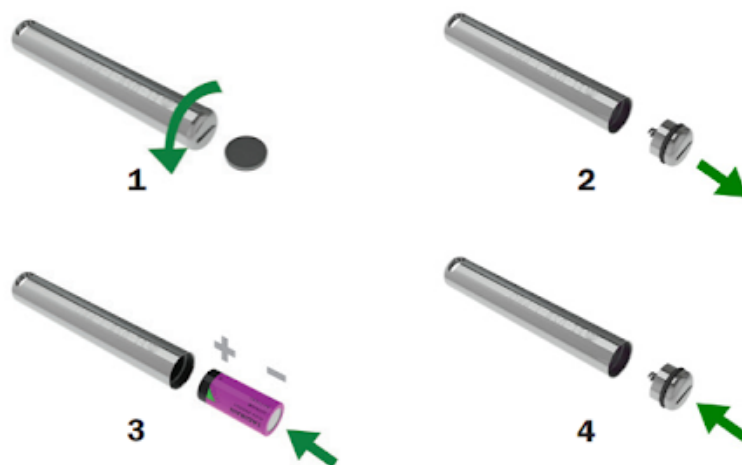
## LAYOUT / Front View



The Model ctemp-USB-80 Gen2 does not require the use of an Interface cable and has a direct USB interface built into the Data Logger itself. Before using it, read the following instructions carefully.

# INSERTING THE BATTERY

Before using the Data Logger EZ, it is necessary to insert the battery (especially for high temperatures 3.6V 2 / 3AA), following the instructions below:



# HOW TO USE THIS DATA LOGGER:

- 1** - Install the MDAS-X Software on your computer
- 2** - After the installation is complete, locate the "MDAS-X" icon on your computer's desktop
- 3** - Click on the icon and start the MDAS-X4 Software - Also install the following driver on your Computer: <http://maxitrack.com.br/wp-content/uploads/2014/10/EZLogger-Driver-Files.zip>
- 5** - After unzipping the folder, save it to Program Files
- 6** - Access the folder and execute the file "USBXpressInstaller". After opening the window with the title "Silicon Laboratories", click on "Install"
- 7** - With the MDAS-X Software open, insert the Data Logger EZ into your computer's USB and wait for the "Device Driver Installation" balloon to appear. FILE and click on PREFERENCES
- 8** - Click on the LANGUAGE tab and make the choice for PORTUGUESE As soon as you click OK, a message will appear: "The program will be restarted to activate the language change" Click OK and restart the MDAS-X software again in the Portuguese version.
- 9** - Access the PROPERTIES option in the ARCHIVE menu and locate "Menu Bar Items" Check the EZ Logger option and click OK: The "EZ Recorder" option will appear in the Software Menu. To test the communication of the Data Logger with your computer and MDAS Software, click on "EZ Recorder" and then on the "General Information" tab.

# HOW TO USE THIS DATA LOGGER:

If the screen appears with all the information from the Data Logger that is connected to your USB, such as Serial Number, Firmware Version and others - it means that the communication has been successfully established and your Data Logger can now be programmed.

**10** - Now that the Data Logger EZ can now communicate with the computer, go to the top menu and click on "EZ Recorder" and then on the "Recorder Initialization" tab.

Through this window it will be possible to configure:

- Description of the Data Logger (Example: name of your equipment; vehicle or process number)
- Delay to start recording.
- Total duration of recordings in memory
- Temperature recording interval
- Adjusting MIN and MAX alarms (signal lines in the Graph)

**11** - Once these parameters are completed, click OK and DO NOT DISCONNECT THE DATA LOGGER FROM USB. Wait a few seconds and then click on GENERAL INFORMATION to check if the instrument has started recording. If the ACTIVE status appears, it means that the recordings have started.

12 - Remove the Data Logger from the USB, screw the protection cap in Stainless Steel again and insert it into your process or equipment.

# HOW TO USE THIS DATA LOGGER:

**13** - To download the readings at the end of your temperature recording process, reconnect the Data Logger to the USB and go to the EZ RECORDER / READER RECORDER menu.



## GRADES:

- In order for the Data Logger EZ Battery to be optimized, whenever the results are downloaded, the instrument will stop recording.
- We recommend that after the test / use, it is interrupted, avoiding that the Data Logger remains in recording continuously. Try to use original batteries from the manufacturer.
- To avoid water penetration (use in liquid media), we recommend that the 2 rubber O´Rings of the 2 caps of the EZ Logger model be replaced annually.
- This instrument has a scale of  $-40 + 125$  ° C - using it in processes that exceed this range can damage the equipment.



## WARNING:

DUE TO ITS CYLINDRICAL FORMAT, DATA LOGGER EZ CAN EASILY ROLL ON THE TABLE, MAY FALL DOWN AND SUFFER FROM INTERNAL FAILURE. FOR THIS REASON, ALWAYS USE SHIMS AND LATCHES WHEN HANDLING IT ON THE WORKBENCH.

# SOFTWARE MAXITHERMAL-2

## INSTALLATION AND INITIAL CONFIGURATION



### Initial Recommendation:

For proper installation of the MaxiThermal-2 Software, it is important to do so as an “Administrator” of your company's computer network. After the installation is complete, click on the “Maxithermal-2” icon on the desktop and run the software once, still as “Administrator”. Go back to the Computer User Login and start using the product normally.

- 1** - Install the MDAS-X Software on your computer
- 2** - After the installation is complete, locate the “MDAS-X” icon on your computer's desktop
- 3** - Click on the icon and start the MDAS-X4 Software - Also install the following driver on your Computer: <http://maxitrack.com.br/wp-content/uploads/2014/10/EZLogger-Driver-Files.zip>
- 5** - After unzipping the folder, save it to Program Files
- 6** - Access the folder and execute the file “USBXpressInstaller”. After opening the window with the title “Silicon Laboratories”, click on “Install”
- 7** - With the MDAS-X Software open, insert the Data Logger EZ into your computer's USB and wait for the “Device Driver Installation” balloon to appear. FILE and click on PREFERENCES

# SOFTWARE MAXITHERMAL-2

## INSTALLATION AND INITIAL CONFIGURATION



### Initial Recommendation::

For proper installation of the MaxiThermal-2 Software, it is important to do so as an “Administrator” of your company's computer network. After the installation is complete, click on the “Maxithermal-2” icon on the desktop and run the software once, still as “Administrator”. Go back to the Computer User Login and start using the product normally.

- 1** - Install the MaxiThermal-2 Software on your computer
- 2** - After installation is complete, locate the “MaxiThermal-2” icon on your computer's desktop
- 3** - Click the icon and launch the Software.
- 4** - Check if a USB port is available on your computer. If you have this type of connector on your CPU or Notebook, connect the USB cable (see figure below) that comes with the Data Logger.





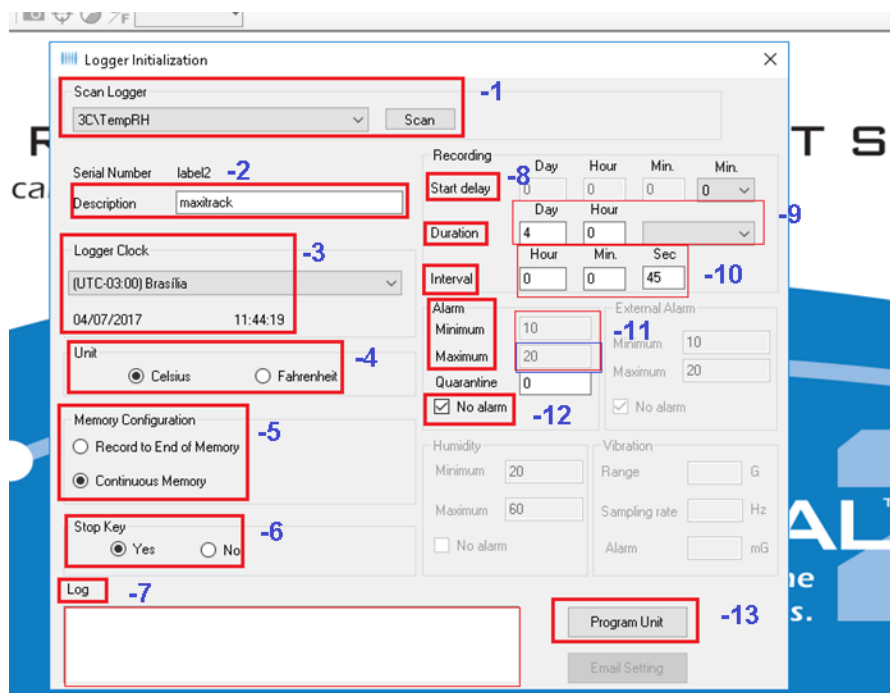
## PROGRAM THE DATA LOGGER FOR RECORDING, AFTER INSTALLING THE SOFTWARE

Click on the “Logger” menu and then on “Logger Initialization”, as shown in the image below.



## LOGGER INITIALIZATION WINDOW

The next screen is the Device Programming menu. Below is a description of the most used functions below.



### Description of the programming screen:

- 1 – Scan Logger:** data logger recognition with maxithermal-2 software
- 2 – Label 2:** field for inserting custom texts.
- 3 – Logger Clock:** Date and time of the data logger's internal memory
- 4 – Unit:** unit of measurement celsius and fahrenheit
- 5 – Memory Configuration:** option to choose between recording to the end of memory or recording with continuous memory.

## LOGGER INITIALIZATION WINDOW

**6 – Stop Key:** Stop the data logger using the start button.

**7 – Log:** field for feedback / feedback of data logger information at the time of data recording

**8 – Start Delay:** Function to delay the start of data logger recording after pressing the start button.

**9 – Duration:** Configuration to choose the total recording time in days.

**10 – Interval:** Configuration to choose the recording interval in hours or minutes.

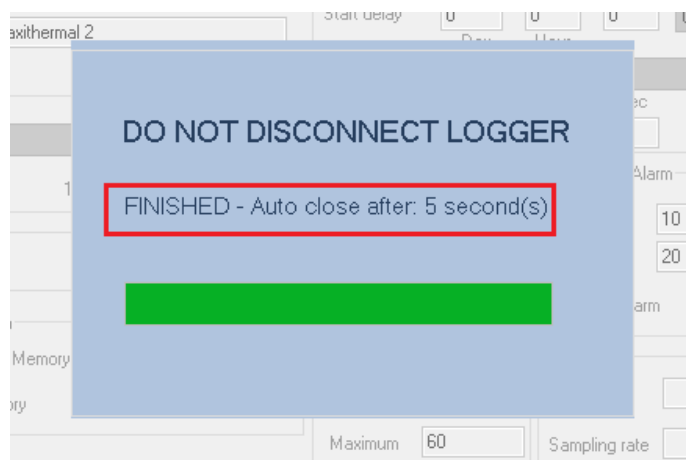
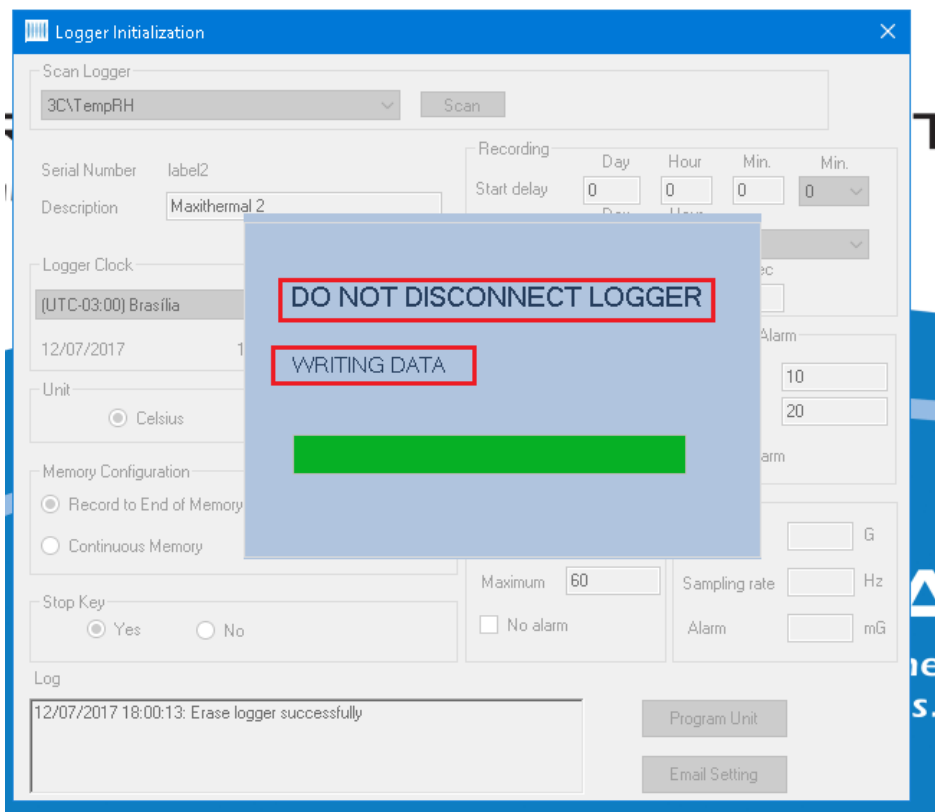
**11 – Alarm minimum / maximum:** option for viewing the alarm ranges in the graph. Configuring this option, when retrieving / downloading data from the data logger, the graph will show 3 lines: MIN, MAX alarm and the line that shows the temperature variation during the recording period.

**12 – No alarm:** option to choose between alarm enabled or disabled.

**13 – Program Unit:** button to save all the settings chosen on the programming screen.

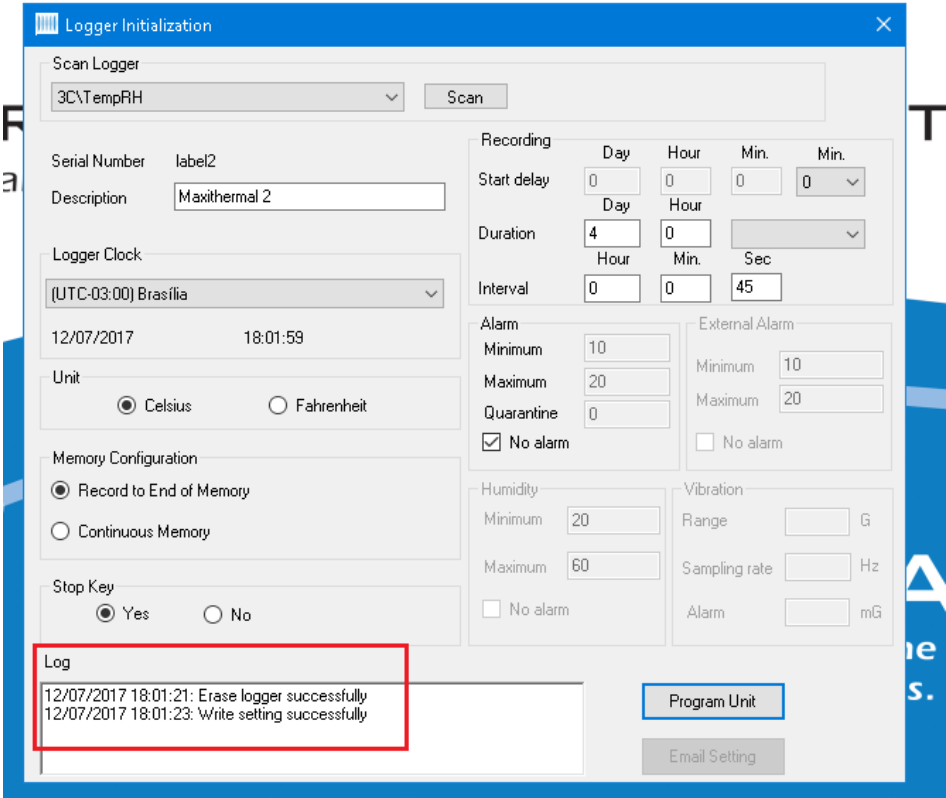
## LOGGER INITIALIZATION WINDOW

After filling in the data on the screen above, press the “Program Unit” button so that the software transmits the programming to the data logger, as shown below.



## LOGGER INITIALIZATION WINDOW

After the transmission of the programming is complete, the software will indicate the completion of the process in the LOG field.



The screenshot displays the "Logger Initialization" window with the following configuration details:

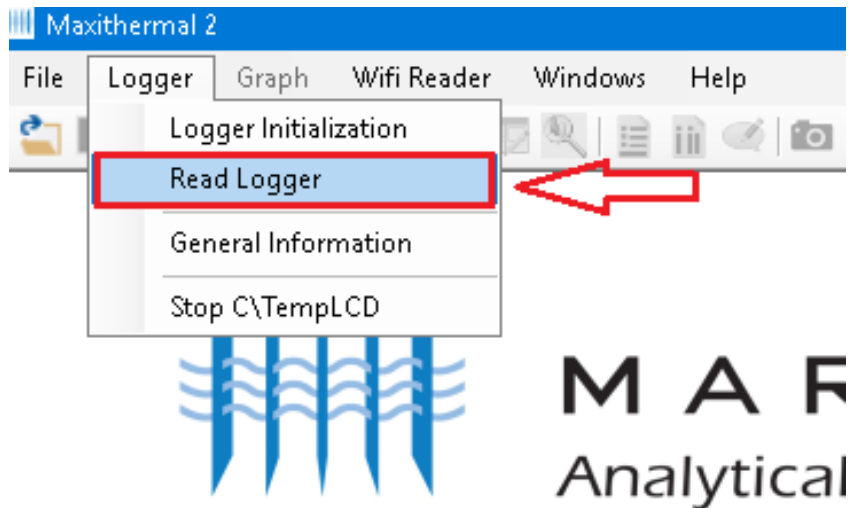
- Scan Logger:** 3C\TempRH
- Serial Number:** label2
- Description:** Maxithermal 2
- Logger Clock:** (UTC-03:00) Brasilia
- Unit:** Celsius (selected)
- Memory Configuration:** Record to End of Memory (selected)
- Stop Key:** Yes (selected)
- Recording:** Start delay (0:0:0), Duration (4:0), Interval (0:0:45)
- Alarm:** Minimum (10), Maximum (20), Quarantine (0), No alarm (checked)
- External Alarm:** Minimum (10), Maximum (20), No alarm (unchecked)
- Humidity:** Minimum (20), Maximum (60), No alarm (unchecked)
- Vibration:** Range, Sampling rate, Alarm

The **Log** field, highlighted with a red box, contains the following entries:

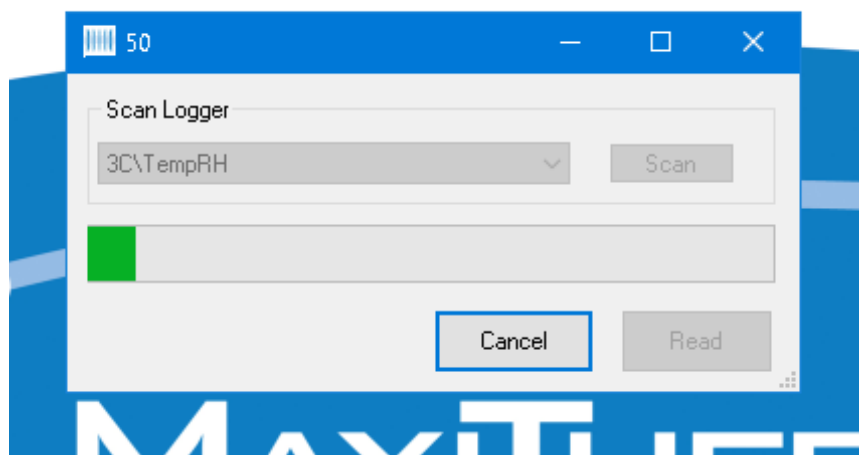
```
12/07/2017 18:01:21: Erase logger successfully
12/07/2017 18:01:23: Write setting successfully
```

## READING AND VIEWING THE GRAPHIC REPORT

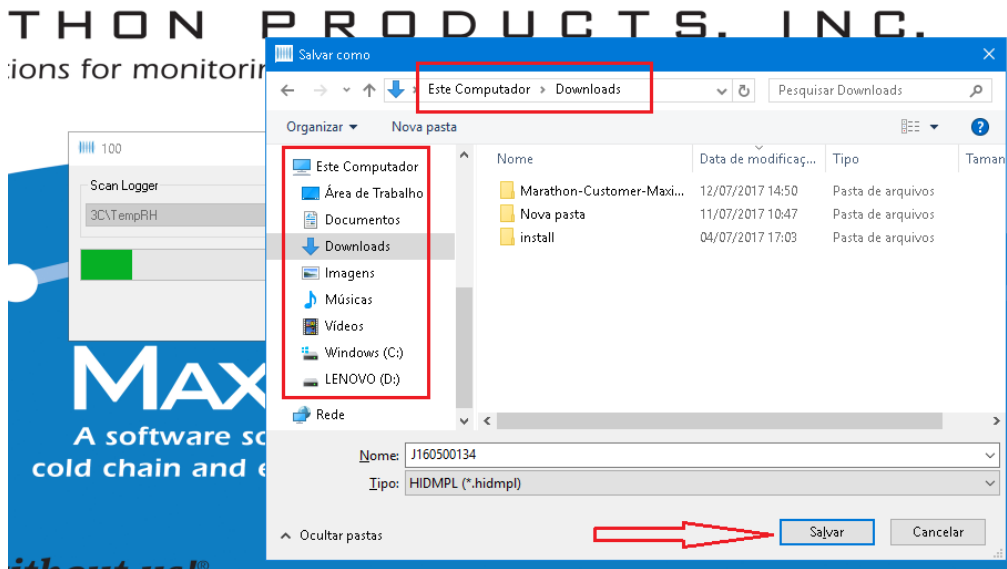
Click on the Logger menu, then Read Logger, as shown in the image below.



Choose your computer's folder and click save.

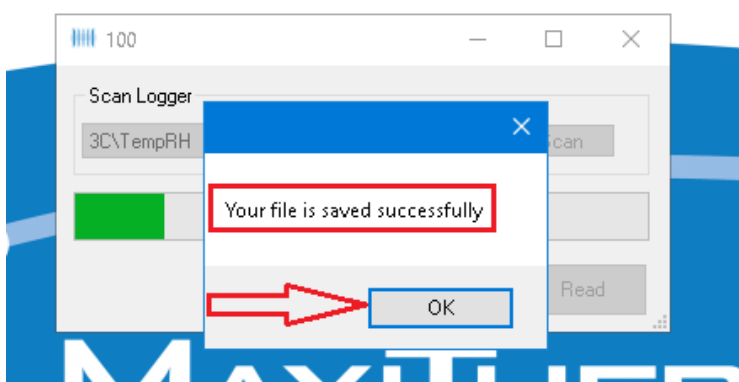


## READING AND VIEWING THE GRAPHIC REPORT



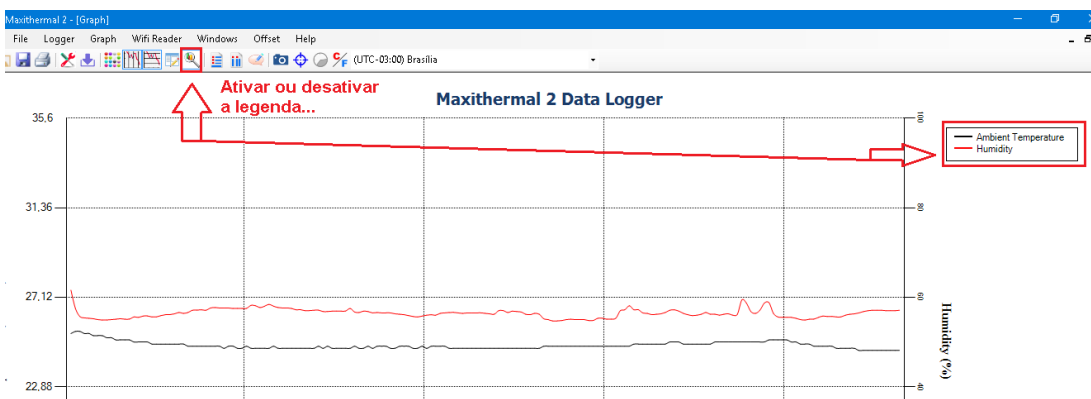
After clicking save, the message below will appear, informing you that the data file has been successfully saved on your computer, then click ok.

## MAXITRACK PRODUCTS, INC. olutions for monitoring the environme

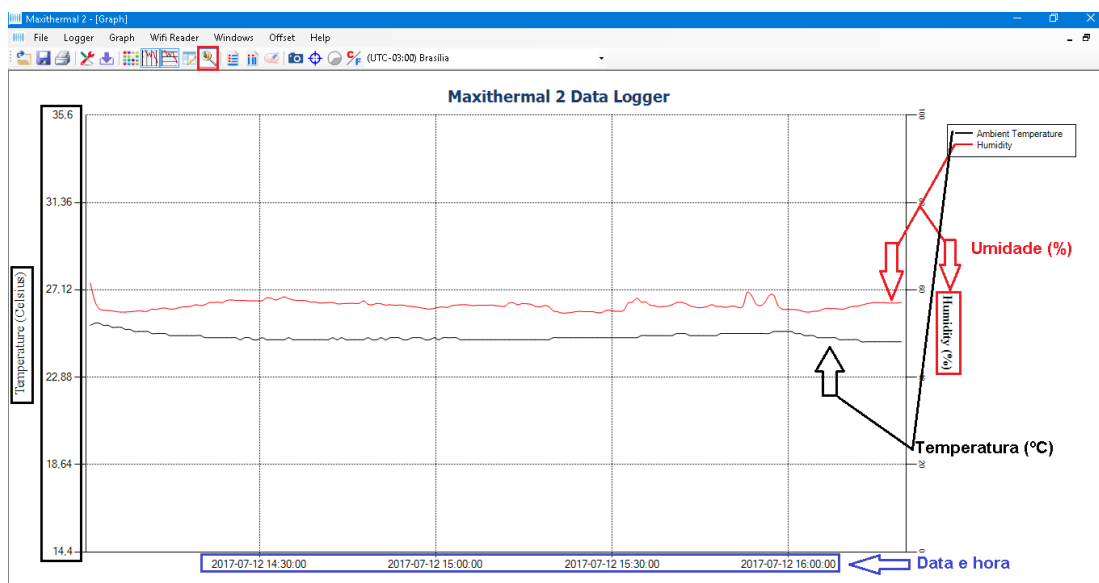


## READING AND VIEWING THE GRAPHIC REPORT

After loading the Graph, follow the indication in the image below to activate / deactivate the legend.



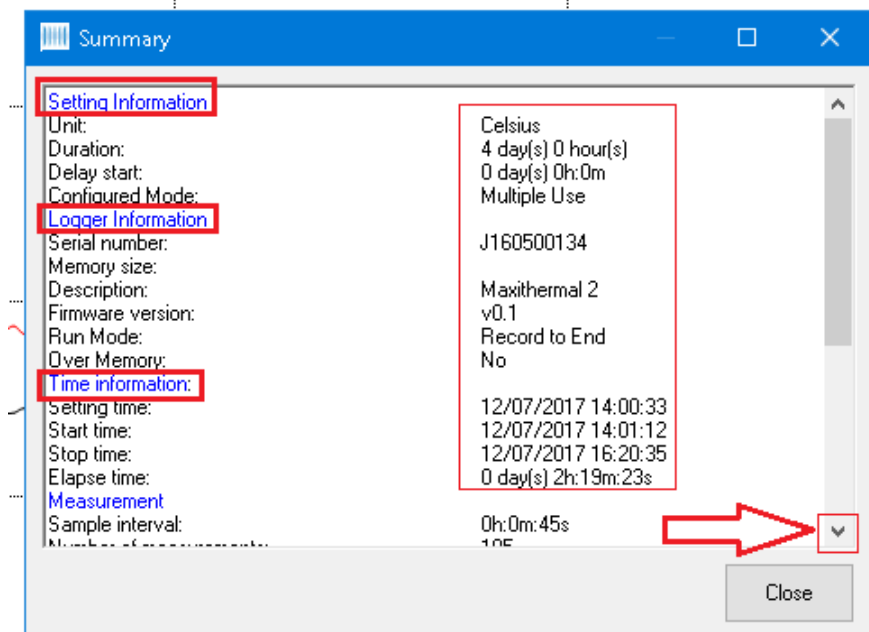
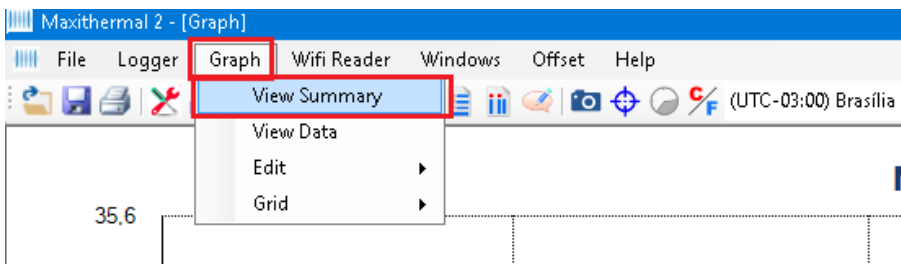
The image below shows the information present in the plot of the graph.





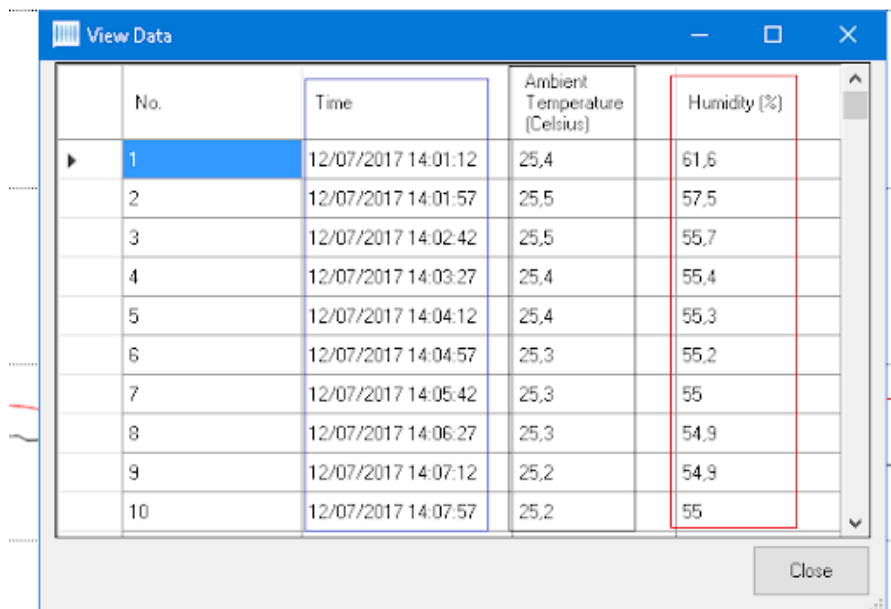
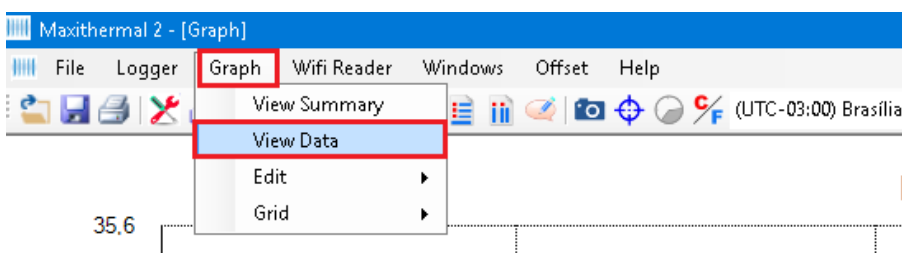
## GENERAL INFORMATION WINDOW

To obtain a summary of the information, follow the instructions below.



## VIEWING THE DATA TABLE

To view the graph in the form of a data table, click on “Graph” and then on “View Data”, as shown below.



The 'View Data' window displays a table with the following data:

No.	Time	Ambient Temperature [Celsius]	Humidity [%]
1	12/07/2017 14:01:12	25,4	61,6
2	12/07/2017 14:01:57	25,5	57,5
3	12/07/2017 14:02:42	25,5	55,7
4	12/07/2017 14:03:27	25,4	55,4
5	12/07/2017 14:04:12	25,4	55,3
6	12/07/2017 14:04:57	25,3	55,2
7	12/07/2017 14:05:42	25,3	55
8	12/07/2017 14:06:27	25,3	54,9
9	12/07/2017 14:07:12	25,2	54,9
10	12/07/2017 14:07:57	25,2	55

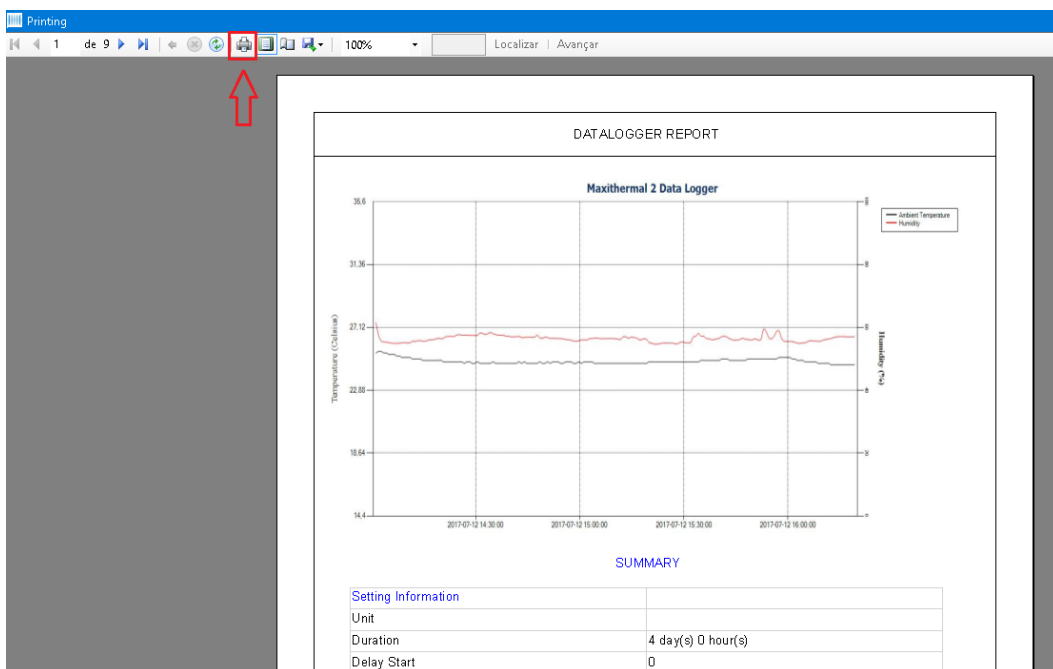
The 'Humidity [%]' column is highlighted with a red box. A 'Close' button is located at the bottom right of the window.

## GRAPH PRINTING

You can also print the table, as shown below, by clicking on the printer icon.



Then, click the next printer icon again, as shown below.

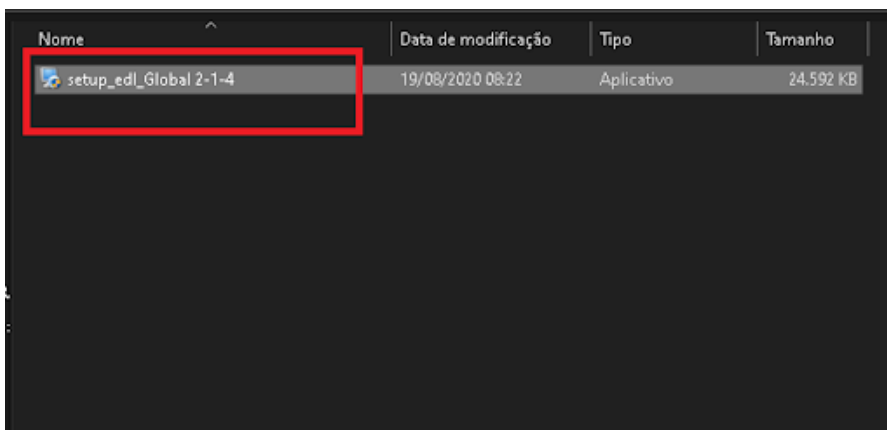


# SOFTWARE MDAS-X

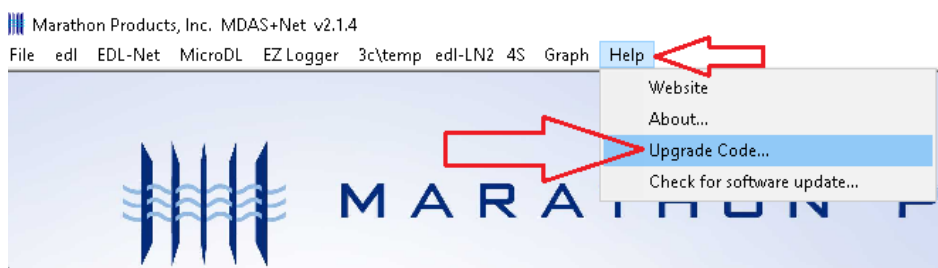
## INSTALLATION AND INITIAL CONFIGURATION

The MDAS-X Software has the ability to automatically generate PDF reports

### INSTALLATION OF MDAS-X SOFTWARE



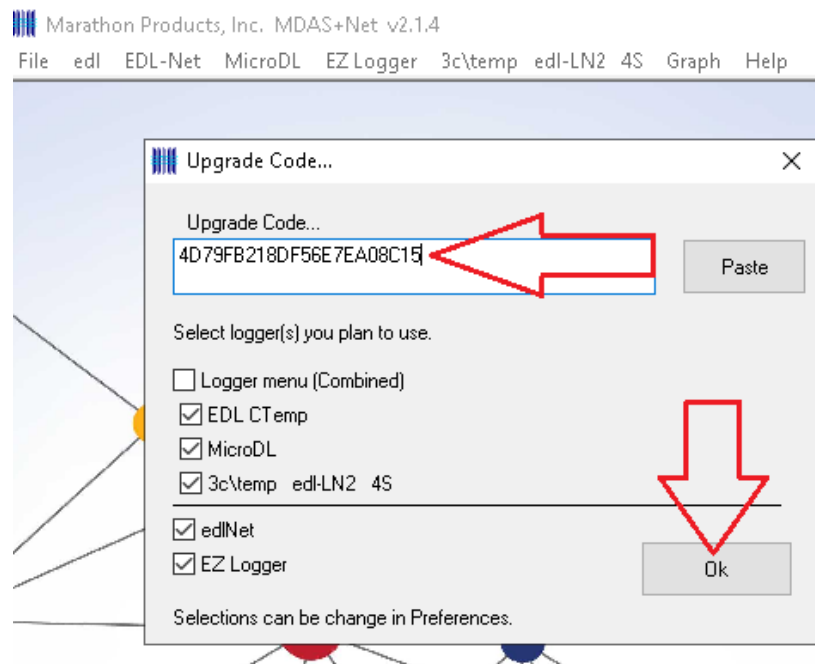
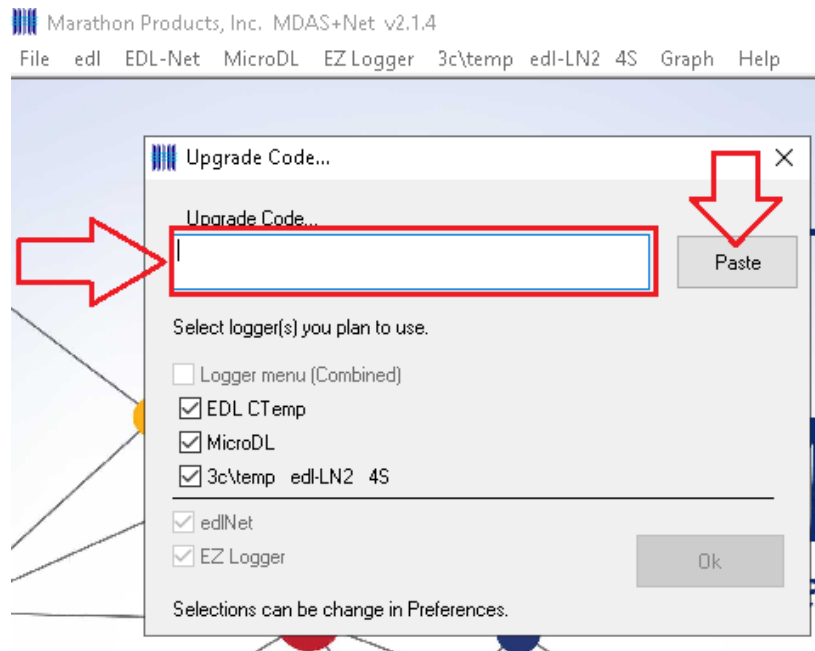
Choose the Upgrade Code option ...



## INSTALLATION OF MDAS-X SOFTWARE

Enter the software activation license code in the field below and click ok.

**Code: 4D79FB218DF56E7EA08C15**

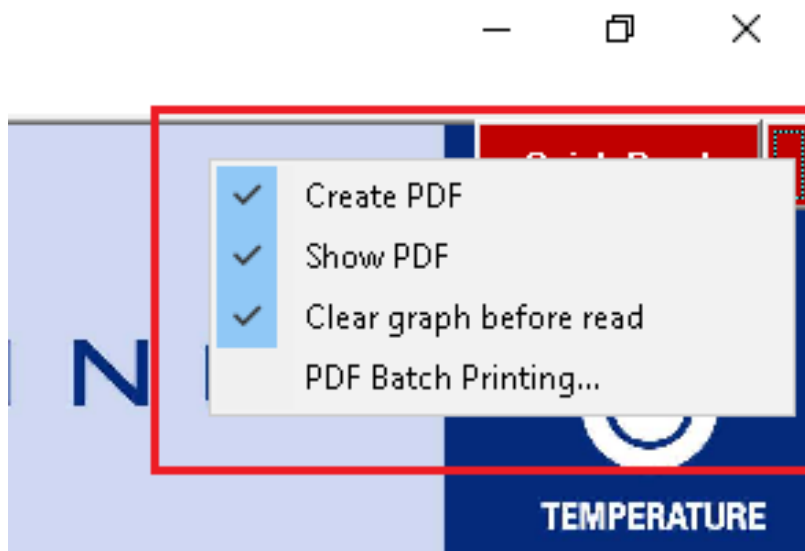
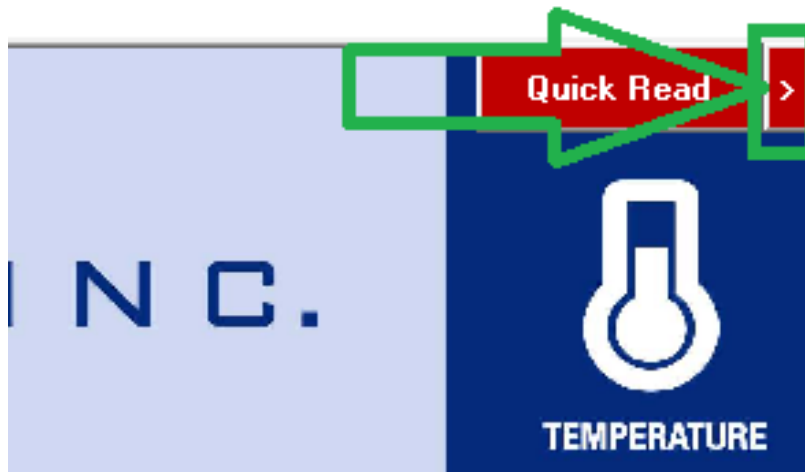


## INSTALLATION OF MDAS-X SOFTWARE

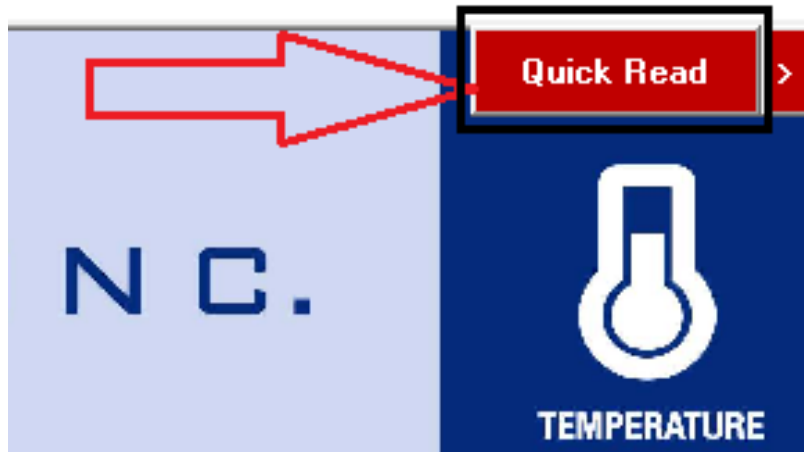
MDAS-X enabled and with the correct layout (shortly after installation it will temporarily show 'ctemp').



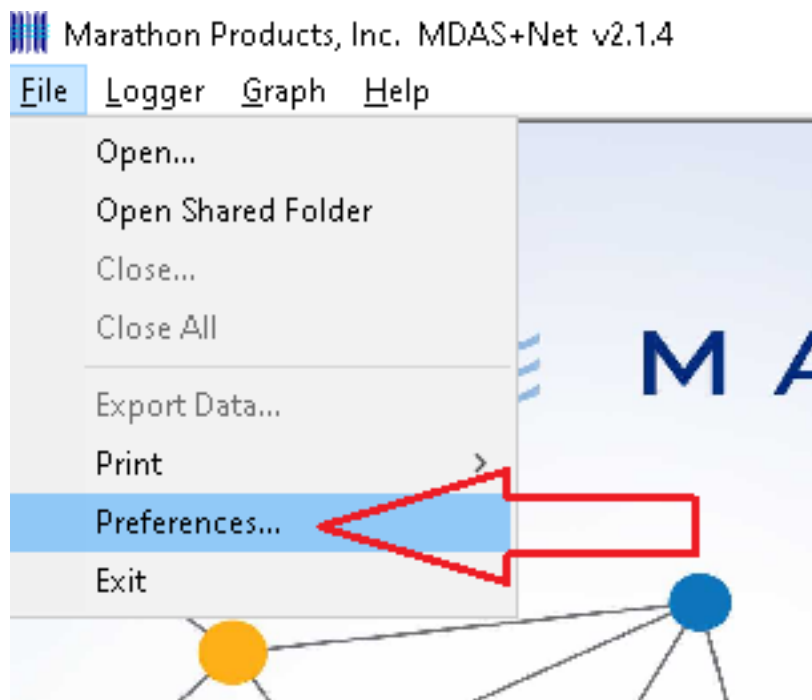
## QUICK READ FUNCTION (QUICK READING FOR REUSABLE OR SINGLE USE VERSIONS)



## QUICK READ FUNCTION (QUICK READING FOR REUSABLE OR SINGLE USE VERSIONS)



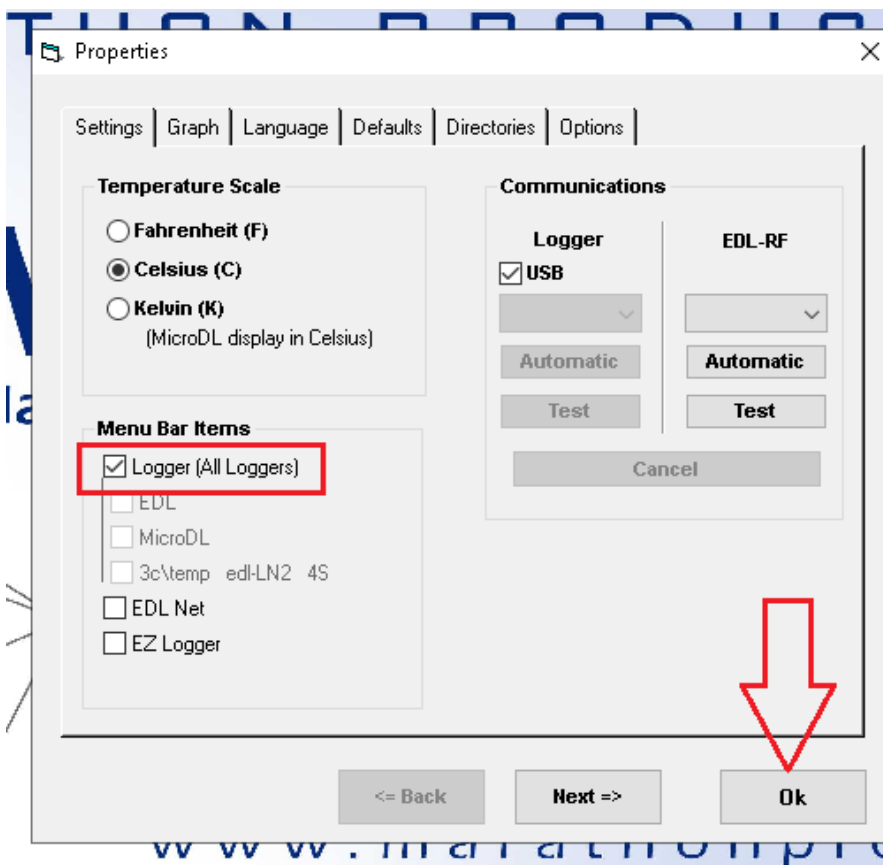
Click on "File and Preferences"





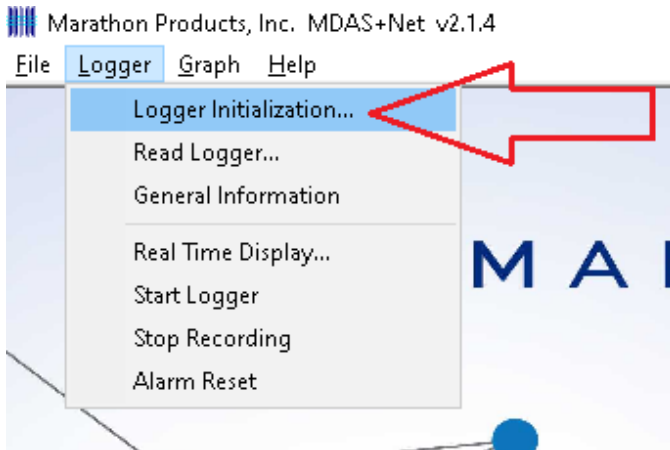
## QUICK READ FUNCTION (QUICK READING FOR REUSABLE OR SINGLE USE VERSIONS)

Choose the option "Logger (All Loggers)" and then click ok.

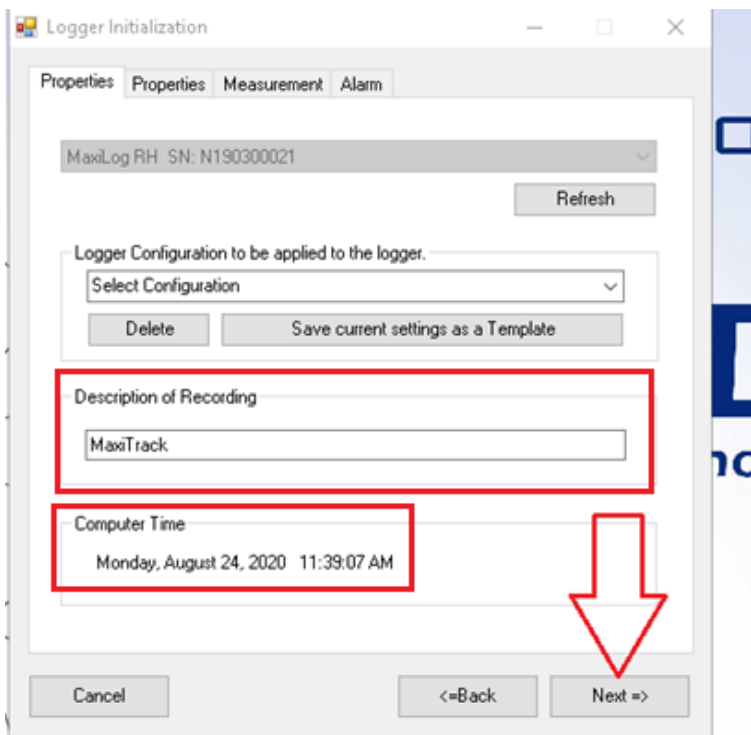


## PROGRAM THE DATA LOGGER FOR RECORDING, AFTER INSTALLING AND CONFIGURING THE SOFTWARE

Click on "Logger Initialization"

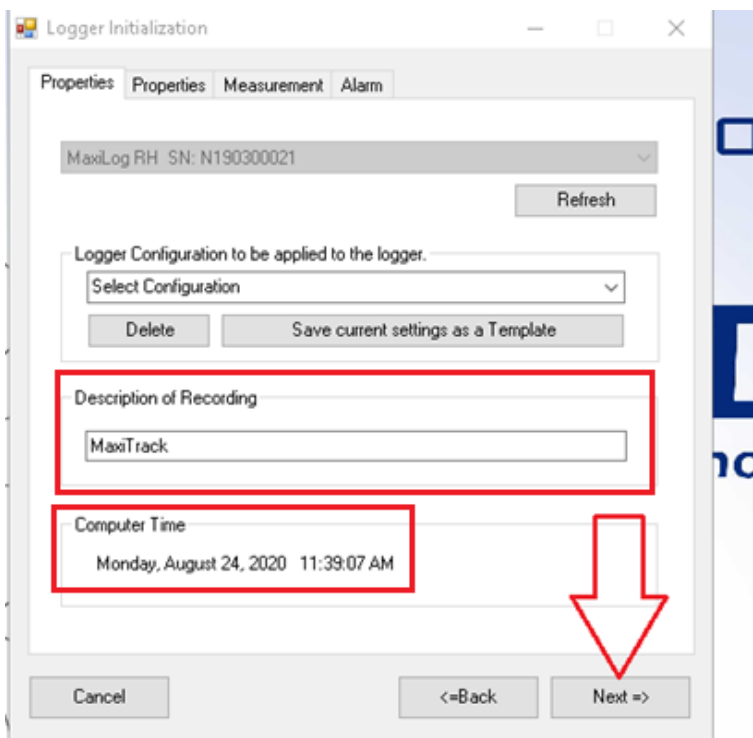


If you want to enter a description in the "Description of ..." field Check that the date and time are correct and click Next!



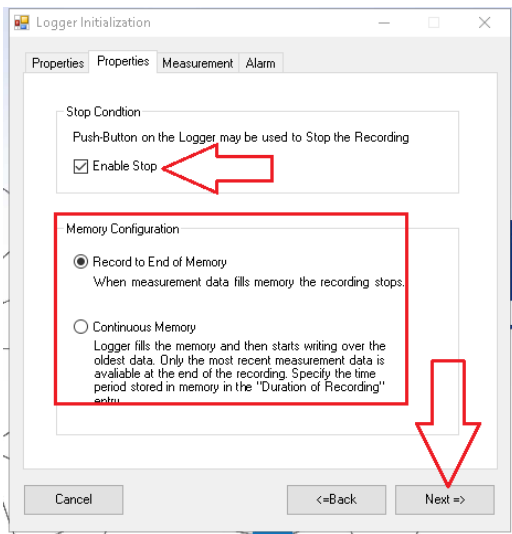
## PROGRAM THE DATA LOGGER FOR RECORDING, AFTER INSTALLING AND CONFIGURING THE SOFTWARE

Choose the time to start after setup and the recording duration / interval and click Next.

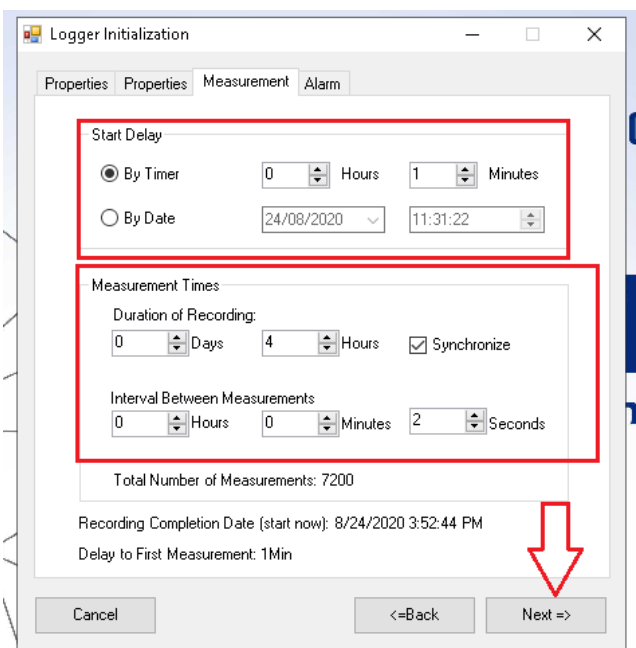


## PROGRAM THE DATA LOGGER FOR RECORDING, AFTER INSTALLING AND CONFIGURING THE SOFTWARE

Choose if there will be a need for the Stop function (stop the data logger using the Start button). Choose the type of memory as shown in the image and click Next ...

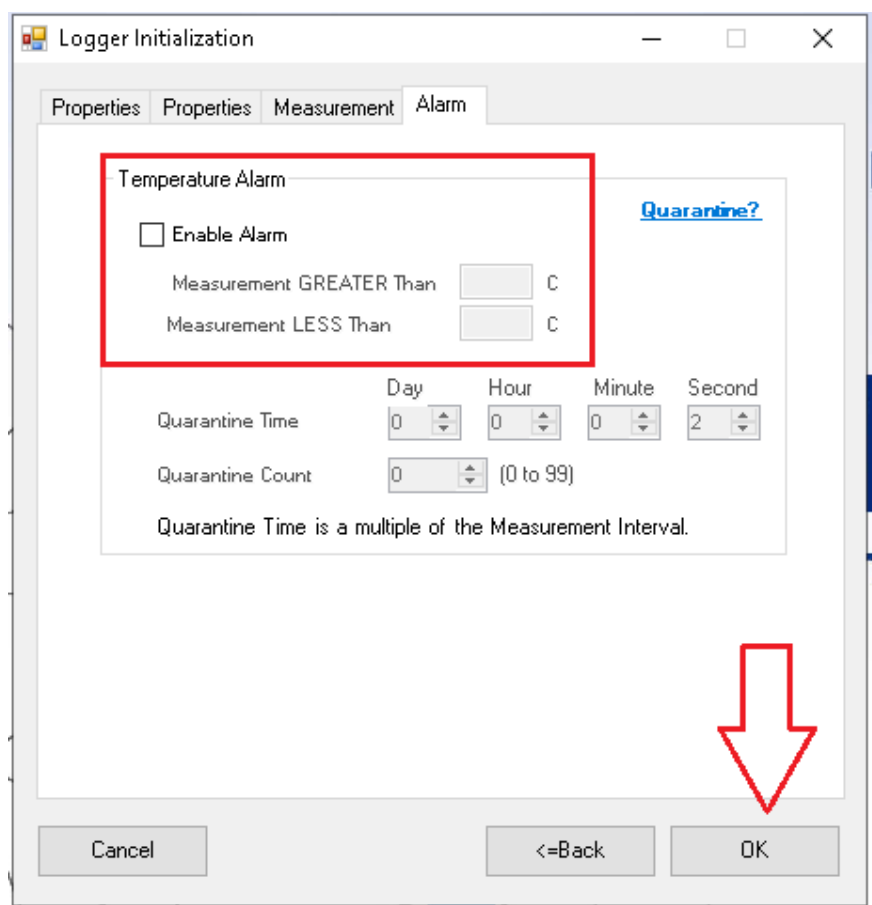


Choose the time to start after setup and the recording duration / interval and click Next.

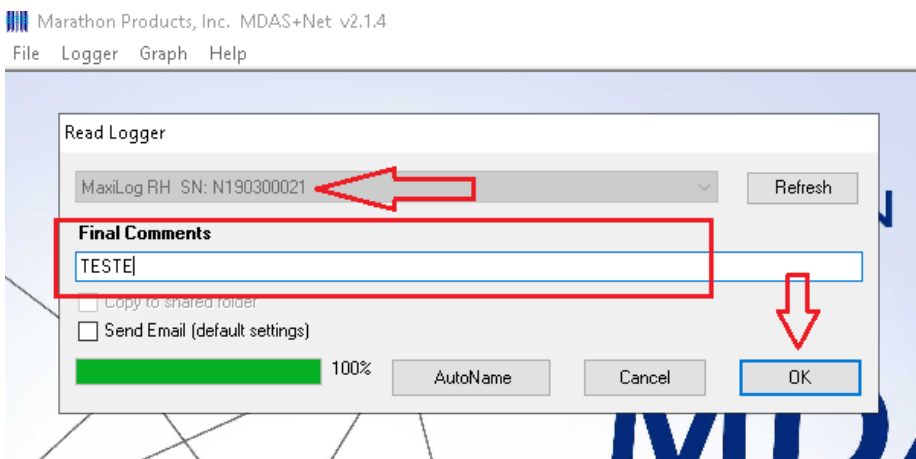
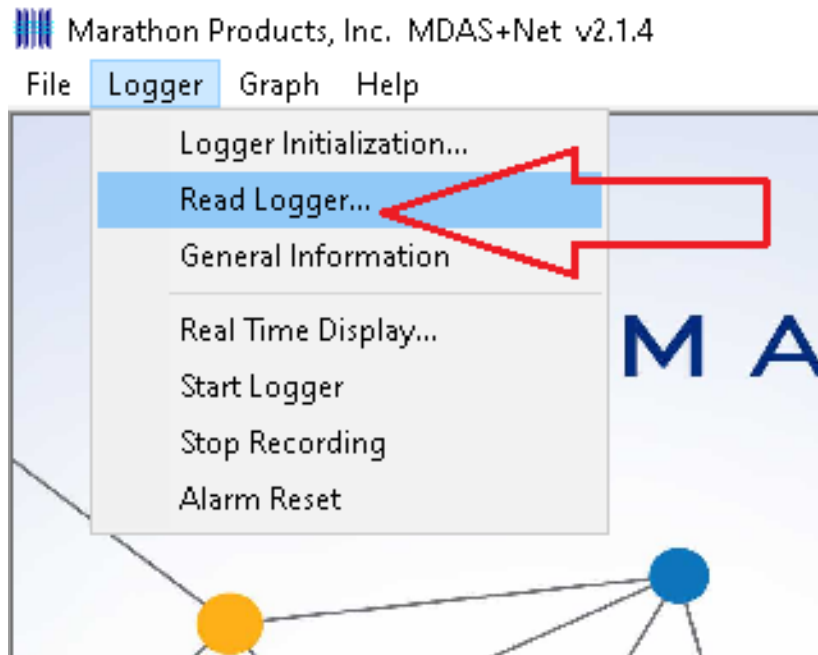


## PROGRAM THE DATA LOGGER FOR RECORDING, AFTER INSTALLING AND CONFIGURING THE SOFTWARE

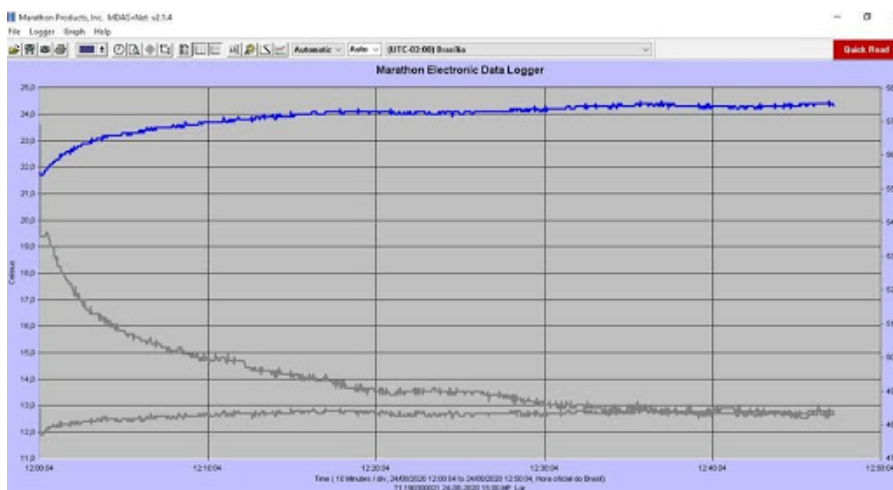
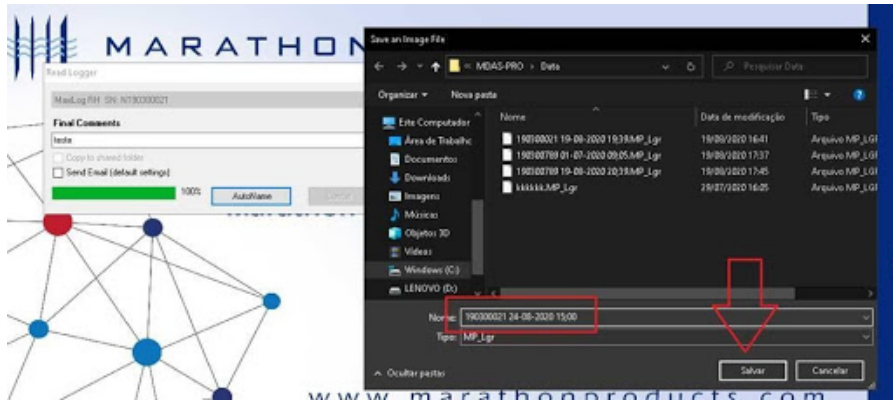
Choose whether there will be any alarms that will be shown in the graph after reading the data when the data logger is finished and click OK.



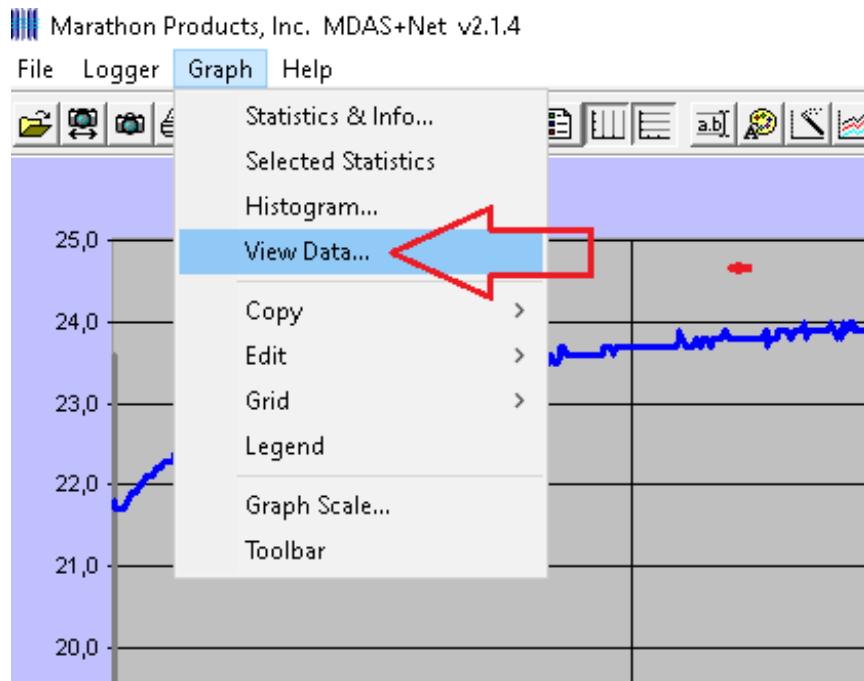
## READING AND VIEWING THE GRAPHIC REPORT



## READING AND VIEWING THE GRAPHIC REPORT



## READING AND VIEWING THE GRAPHIC REPORT

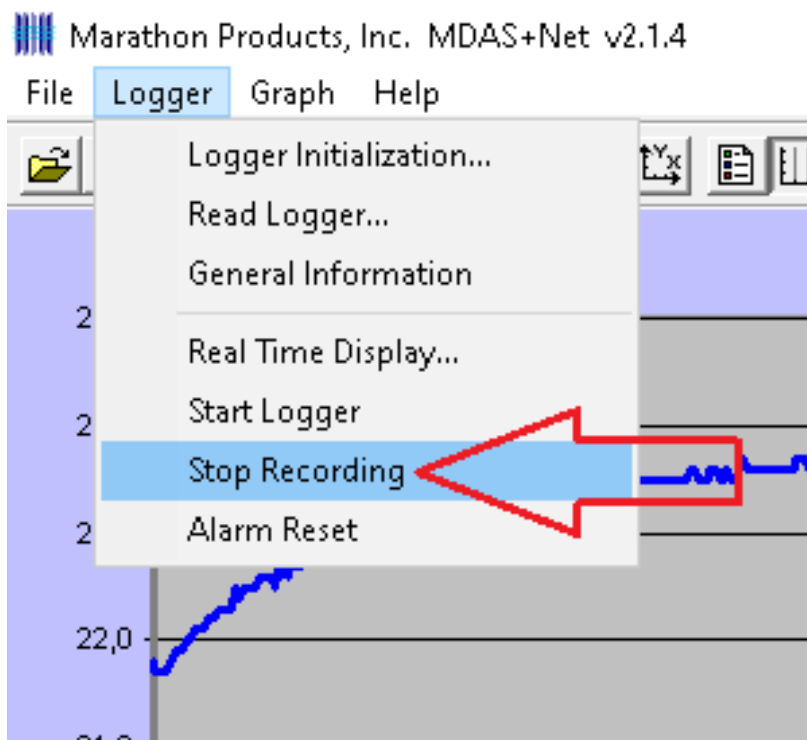
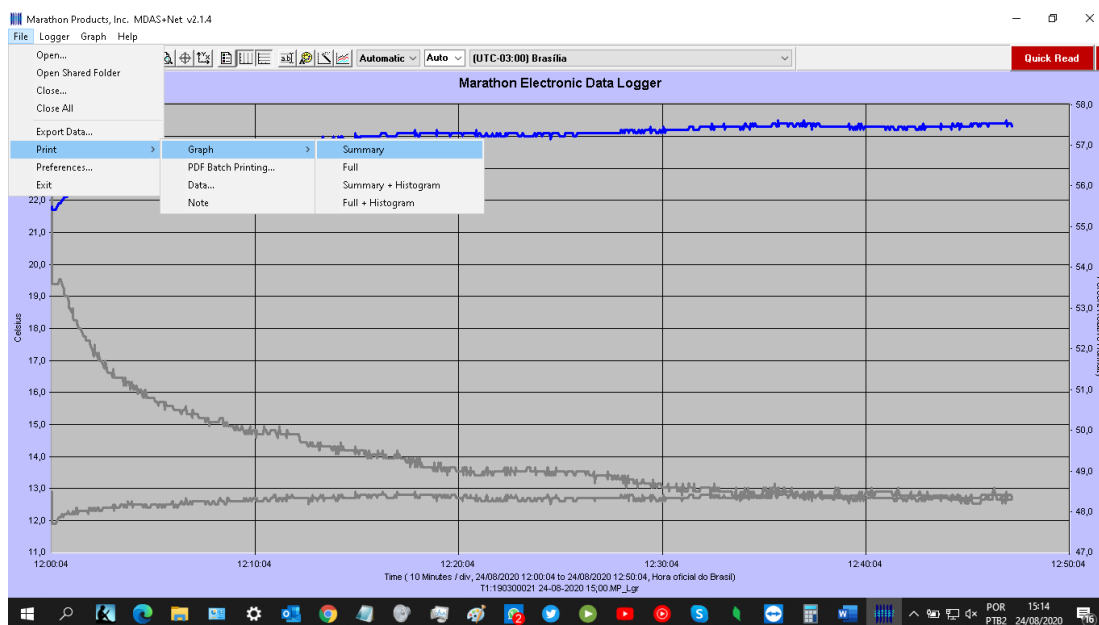


The "View Data" dialog box is open, showing a table of sensor data for the file "190300021 24-08-2020 15:00.MP\_Lgr". The table has columns for "Temperature", "Humidity", and "Dewpoint". The data is presented in a list format with a scroll bar on the right. The "Uncompressed - Output all Data." checkbox is checked, and the "Numbers" checkbox is unchecked. "Help" and "Ok" buttons are visible at the top right of the dialog.

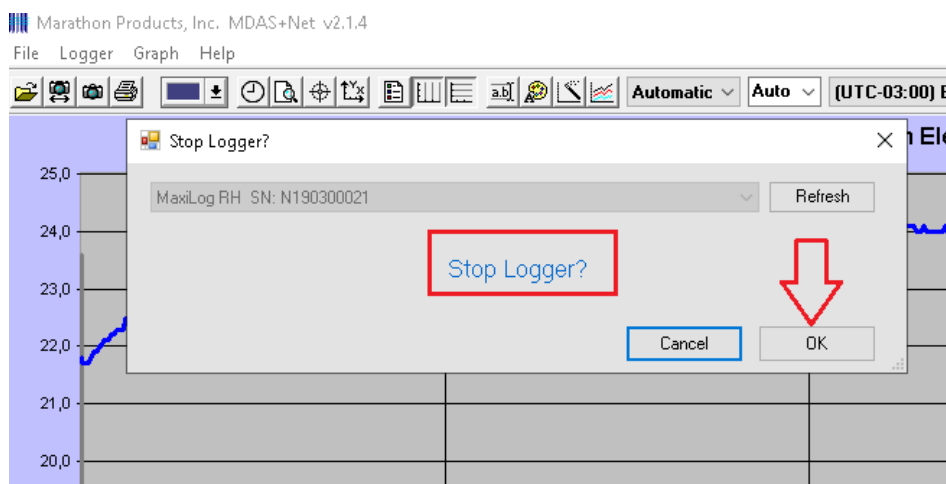
Timestamp	Temperature	Humidity	Dewpoint
24/08/2020 12:00:04	21,8	56,9	12,9
24/08/2020 12:00:06	21,7	53,6	11,9
24/08/2020 12:00:08	21,7	53,6	11,9
24/08/2020 12:00:10	21,7	53,6	11,9
24/08/2020 12:00:12	21,7	53,6	11,9
24/08/2020 12:00:14	21,7	53,6	11,9
24/08/2020 12:00:16	21,7	53,6	11,9
24/08/2020 12:00:18	21,7	53,6	11,9
24/08/2020 12:00:20	21,8	53,6	12,0
24/08/2020 12:00:22	21,8	53,6	12,0
24/08/2020 12:00:24	21,9	53,6	12,1
24/08/2020 12:00:26	21,9	53,7	12,1
24/08/2020 12:00:28	21,9	53,7	12,1
24/08/2020 12:00:30	21,9	53,7	12,1
24/08/2020 12:00:32	21,9	53,7	12,1
24/08/2020 12:00:34	22,0	53,6	12,2
24/08/2020 12:00:36	22,0	53,6	12,2
24/08/2020 12:00:38	22,0	53,5	12,1
24/08/2020 12:00:40	22,1	53,5	12,2
24/08/2020 12:00:42	22,1	53,4	12,2
24/08/2020 12:00:44	22,1	53,3	12,2
24/08/2020 12:00:46	22,1	53,3	12,2
24/08/2020 12:00:48	22,1	53,3	12,2



## READING AND VIEWING THE GRAPHIC REPORT



## READING AND VIEWING THE GRAPHIC REPORT





## PROBLEMS SOLUTION

### → **The front LEDs do not flash::**

It means that the Data Logger is not recording.

Check that the instrument has accepted the programming, using the

### **GENERAL INFORMATION**

### → **It is not possible to communicate with the recorder:**

Verify that the USB communication port is connected to an active input on your computer. Check that the other end of the cable is connected to the Data Logger (mini USB port, below the rubberized side cover).

### → **It is not possible to communicate with the recorder:**

Verify that the USB communication port is connected to an active input on your computer. Check that the other end of the cable is connected to the Data Logger (mini USB port, below the rubberized side cover).

- Check that the communication drivers for your computer's USB port are up to date.
- Check if the physical input / USB port is active / functioning.
- Check if the USB cable is original, supplied by MaxiTrack.



## PROBLEMS SOLUTION

→ **The front display shows the word ´END´**

It means that the Data Logger has completed the recording cycle and is ready for report redemption.

→ **The front display shows the word ´SET´**

It means that the Data Logger has received new programming. To start it, just press and hold the START button for 4 seconds.



## MAINTENANCE AND CLEANING

To clean the equipment, proceed as follows:

- Clean the Data Logger periodically with a diluted solution of water and mild soap using a sponge or soft (slightly damp) cloth.
- To dry, use a dry, soft cloth.



### **Observation:**

- To clean the instrument, ensure that the rubber side cover is properly closed.
- The use of common and specific cleaning products is not recommended, because, in addition to contaminants, depending on the working temperature to which the Data Logger is subjected, they can impregnate and cause stains on the external probe and housing.



## MINIMUM REQUIREMENTS / PC



- **Windows XP, Vista or 7**
- **250 GB hard drive**
- **0.5 Ghz processor**
- **1 GB RAM**
- **1 USB output**
- **Mouse / Keyboard**



### **SUPPORT**

Exclusive email for Technical Support to the user:  
[eng@maxitrack.com.br](mailto:eng@maxitrack.com.br)



## ABOUT WARRANTY

Maxitrack is responsible for any manufacturing defects in its products or instruments, for a period of 6 to 12 months from the date of purchase / issue of the NF.

If necessary, request replacement or repair from the commercial establishment where the product was purchased.

The guarantee will only be valid upon presentation of the purchase invoice.

In case there is a need to send the equipment to our Laboratory for possible checks, the forward and return freight is the sole responsibility of the customer.

**This Warranty does not cover any damage caused by the customer, loss of Temperature data or any other damage related to local Software or Equipment.**

Engineering and Sales:

,Tel: +55 11 5562 0337 | [info@maxitrack.com.br](mailto:info@maxitrack.com.br) | [www.maxitrack.com.br](http://www.maxitrack.com.br)



Quality ISO 9001  
Certified System



For reasons of improving the technology used in the manufacture of our product line, this manual may change without prior notice.