

THERMOTRACK WEBSERVE

*Installation and
User Manual*

Version :

Help TTW-en
201014.docx

I.	INSTALLATION OF A FOXNET NETWORK	4
A.	INSTALLATION OF NET DEVICE MANAGER SOFTWARE	4
B.	INSTALLING A FOXNET CONTROLLER	4
C.	INSTALLATION OF A FOXNET LOGGER	6
D.	SETTINGS	7
E.	ENTERING THE SENSOR IN THERMOTRACK-WEBSERVE	8
F.	UNLINK A FOXNET AND A CONTROLLER.....	8
II.	INSTALLATION OF YOUR SENSOR NET CONNECT AND SENSORS	10
A.	INSTALLATION OF NET DEVICE MANAGER SOFTWARE	10
B.	INSTALLATION OF A WI-FI SENSOR NET CONNECT	11
C.	INSTALLATION OF A WIRED SENSOR NET CONNECT	13
D.	DETECTION OF SENSOR NET CONNECT AND PROBES	14
E.	AUTOMATIC SENSOR DETECTION	15
F.	ENTERING THE SENSOR IN THERMOTRACK-WEBSERVE	15
G.	CLOSE THE NET DEVICE MANAGER SOFTWARE.....	15
H.	USING THE SENSOR NET CONNECT WITHOUT NET DEVICE MANAGER SOFTWARE.....	16
III.	INSTALLATION OF A TB NET CONNECT	19
A.	INSTALLATION ON THE NETWORK.....	19
B.	IF YOU USE DYNAMIC IP ADDRESSES (DHCP)	20
C.	SET UP YOUR TB NET CONNECT FOR THERMOTRACK WEBSERVE	20
IV.	SIREN	22
A.	HOW TO INSTALL A SIREN	22
B.	HOW TO CLOSE A SIREN	23
C.	HOW TO CHOOSE BETWEEN SOUND AND LIGHT	23
V.	DOOR OPENING SENSOR	24
VI.	CREATE / MODIFY LOCATIONS AND ZONES	26
VII.	CREATE / MODIFY ITEMS	27
A.	TEMPERATURE, TEMPERATURE AND HUMIDITY, PRESSURE WITH SENSOR NET CONNECT (SNC)	27
B.	4.20 mA SENSORS WITH SENSOR NET CONNECT	28
C.	RELAY.....	28
D.	THERMO AND HYGRO BUTTONS	28
E.	SIREN – RELAY ALARM	30
VIII.	HOW TO SET ALARM MESSAGES	31
IX.	CREATE / MODIFY USERS	32
A.	CREATE / MODIFY USERS.....	32
B.	ACCESSIBILITIES	32
C.	RESPONSIBILITIES.....	32
D.	TYPE OF ALARMS	33
E.	CALENDAR.....	33
X.	DASHBOARD	34
XI.	MAPS	35
XII.	CALIBRATION	36
XIII.	AUTOMATED PDF REPORTS	37
A.	REPORT GRAPHS AND ALARMS	37
B.	REPORT THERMO BUTTON NOT DOWNLOADED.....	37
XIV.	AUDIT TRAIL	39

XV.	LIST OF ALARMS.....	40
XVI.	DETAIL OF AN ITEM.....	41
A.	MODIFICATION OF THE PERIOD OF ANALYSIS.....	41
B.	QUICK CHANGE OF SETTINGS.....	41

I. Installation of a FoxNet network

A. Installation of Net Device Manager Software

Install this software on a Windows PC that will work 24x7. Deactivate the automatic shutdown mode in the energy saving settings

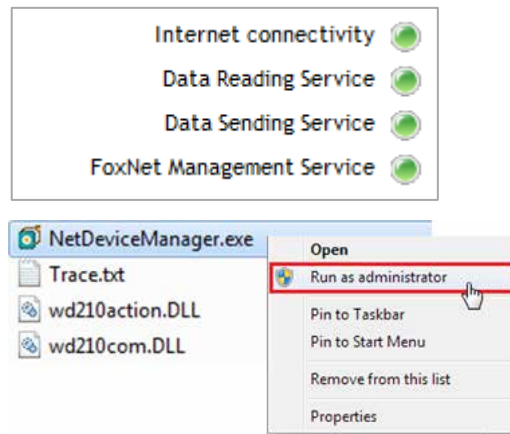
This computer can work on any version of Windows and Windows Server, on a physical or virtual machine.

- Download the software at http://thermobouton.fr/ftp/plugandtrack/Thermotrack-Websolve/NetDeviceManager/Install_NetDeviceManager.exe
- Open the downloaded file and follow the installation steps.

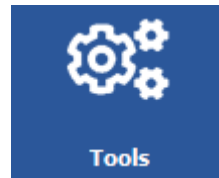
Check that the Windows services are properly started.

If one of the lights is red:

- Close Net Device Manager (Password = netdevice)
- Go to the directory C:\Program Files (x86)\Proges-Plus\NetDeviceManager
- Right-click on the NetDeviceManager.exe file and choose the option "Open as administrator"



If the Internet Connectivity indicator is red, you may be using a **proxy**. Fill in the available settings in the "Tools" menu



Proxy

Use a proxy server

IP Address:

Port:

Login:

Password:

If you use fixed IP addresses, also indicate this in the "Tools" page

B. Installing a FoxNet Controller

Connect a Controller to an Ethernet socket closest to the FoxNet recorders you are using and to an electrical outlet.

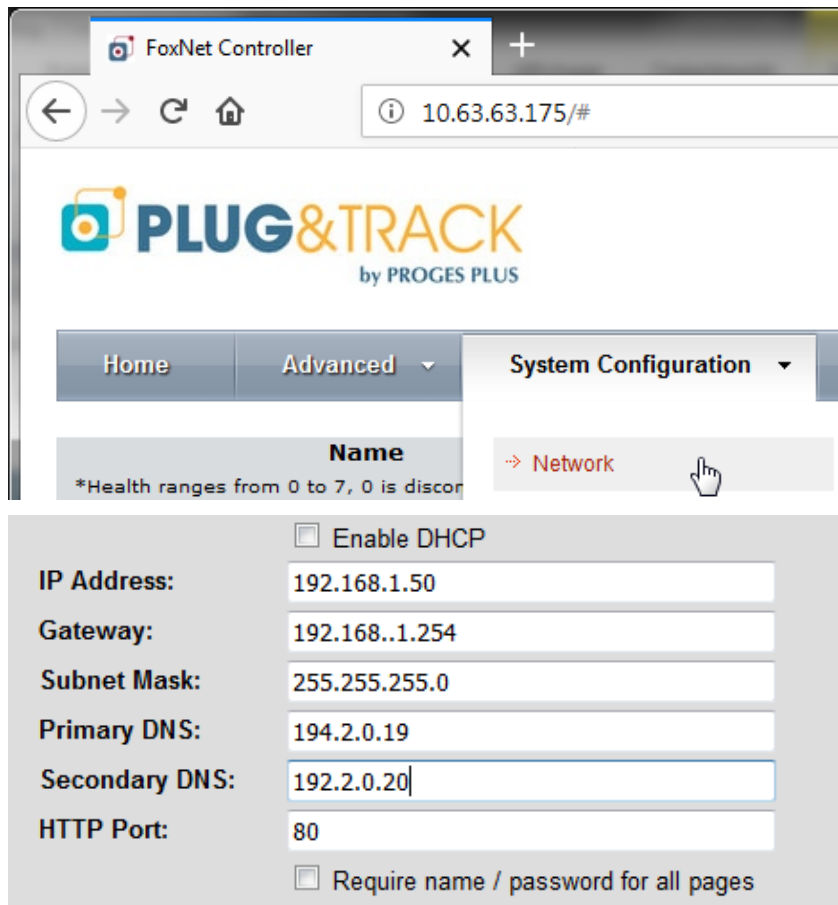
The green LED on the Ethernet connector indicates a successful connection to your computer network. The yellow LED on the right only lights up during network traffic.

If you want to assign a Fixed IP address to the Controller

- Use the Microchip Ethernet Discoverer.exe program located in C:\Program Files (x86)\Proges-Plus\NetDeviceManager to determine which address has been assigned to the FoxNet Controller.
- In a tab of your browser, enter the IP address of the Controller you want to change. (Example 192.168.1.1.27). The following web page appears.



- Use the "Network" menu in "System Configuration".
- Enter the "admin" login and the "progesplus" password.



- Change the IP address and other settings and save the new settings by pressing "Save"

C. Installation of a FoxNet logger



Insert the batteries in the FoxNet logger only when the Controller is installed and detected on the network. Otherwise, the batteries will discharge very fast.

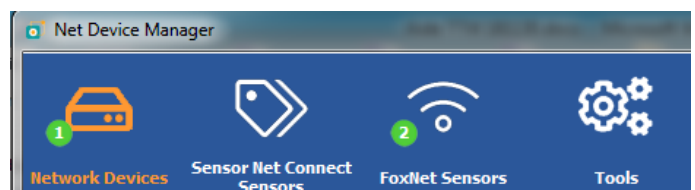
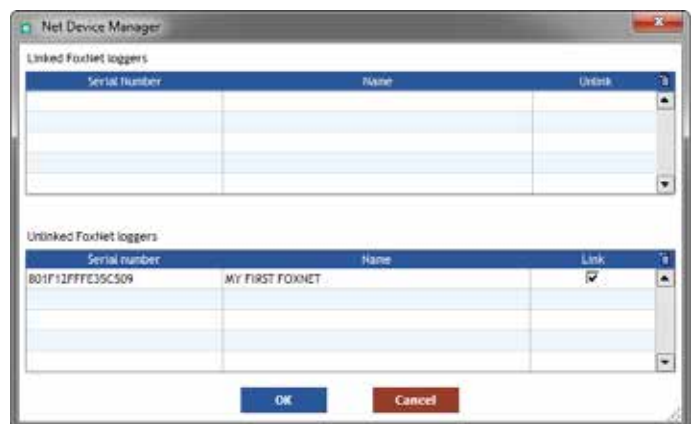
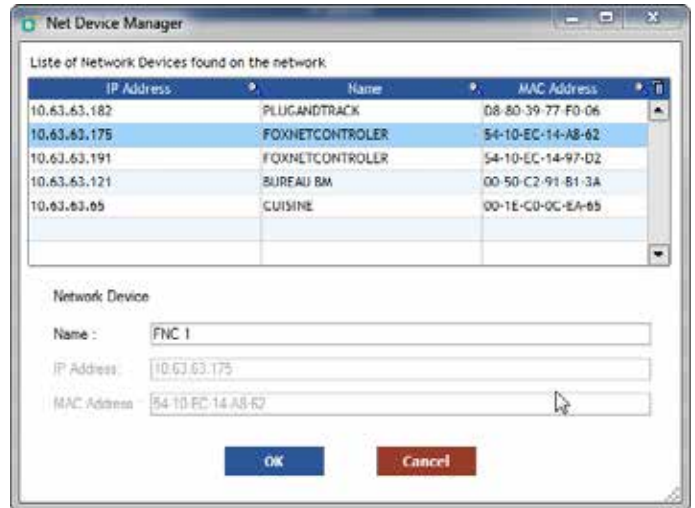
- Open the case and insert the 2 batteries supplied.
- Connect the probes by identifying with their serial numbers in which Equipment you place each one.
- If you install several FoxNet loggers at the same time, note the serial number of each recorder. It is located on the right side of the case.

D. Settings

- Open the Net Device Manager software. Click on the **Network Devices** menu and then **New**. The list of FoxNet or Sensor Net Connect on the network is displayed as follows.
- You can locate the FoxNet you are interested in by its Mac Address which appears in the list and on the label attached to the FoxNet.
- Enter a name for this Controller if you have several and press OK
- The list of FoxNet devices within radio range of the Controller is displayed.
- You can assign a **name** to each of the FoxNet device
- Click on the right box "**Link**" to connect this recorder to this Controller.
- Click on OK

Warning: A FoxNet can only be linked with one Controller

- Once the FoxNet is linked, you can add the probes that are connected
- Net Device Manager finds the first sensor
- Then the second one (3 sensor max)
- The home page shows now
 - 1 Network device
 - 1 to 3 FoxNet sensors
- The list of sensors is displayed as follows





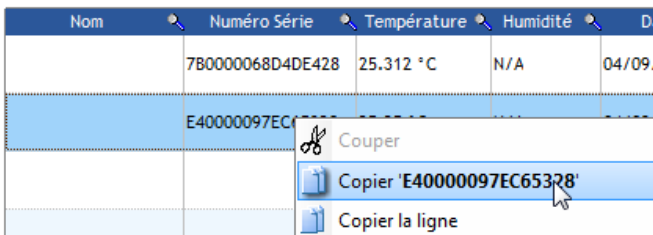
For each sensor, the software indicates the battery level and radio reception level of the recorder used by this sensor.

If the radio reception level is too low, use another controller closer to you (the association between the FoxNet recorder and the controller in question must be removed)

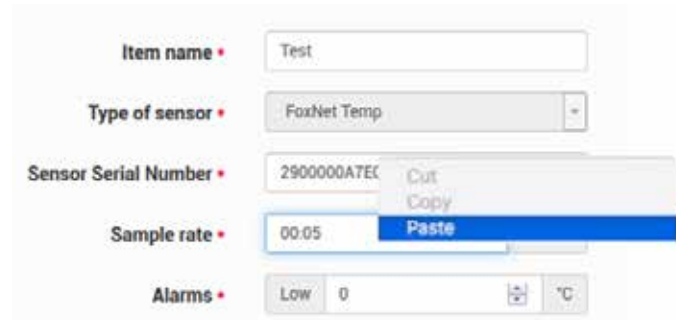
E. Entering the Sensor in Thermotrack-Webserve

- In the Net Device Manager software, select the serial number of the probe you want to install. Right click and "Copy" the serial number
- Open Thermotrack-Webserve and create Equipment.
- In the "Probe type" field select "FoxNet Temp" or FoxNet TH depending on the probe type and paste the serial number.
- **Note for FoxNet PT100 :**
 - Select FoxNet Temp as Probe Type
 - As PT100 sensors do not have their own serial number, the serial number will be the FoxNet Logger serial number and the sensor number 1 or 2 (801F12FFFEF36CBF-1 for example)

Copy for Net Device Manager



Paste in Thermotrack Webserve



- Then enter the other information required to create an item

F. Unlink a FoxNet and a Controller

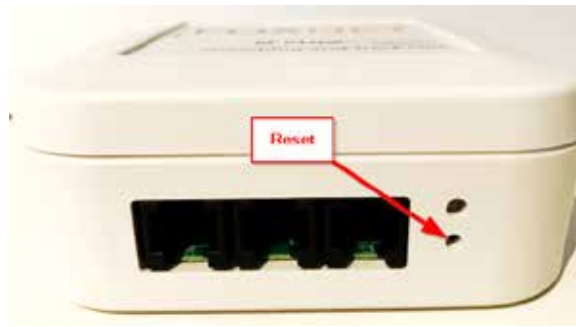
If you need to unlink a FoxNet recorder from a Controller, use the "Manage FoxNet" menu in the Network Items menu and unlink it.

Manage FoxNet



It will be necessary to wait for FoxNet to communicate with the Controller. This can take a long time if you have sensors already registered with a sampling rate of several minutes.

To avoid this wait, make a FoxNet Reset with a paper clip that you gently push into the small found under the FoxNet LED.



Note

The link between FoxNet and the Controller can also be made through the Controller's web pages. In this case, proceed as follows

- o Unlinked Devices refers to the list of recorders not connected to this Controller
- o Linked Devices refers to the list of connected recorders
- EUI numbers are the serial numbers of FoxNet recorders
- - In the Controller's web page, use the "**System Configuration**" and "**Devices**" menus

Linked Devices

Description	EUI	Device
*The above devices are currently linked with this controller, click on a device to unlink it.		

Unlinked Devices

Description	EUI	Device
Temperature logger with High Power Radio	801F12FFFE35ACA1	FN2051
Temperature logger with High Power Radio	801F12FFFE358F9F	FN2051
*The above devices are not linked with any controller, click on a device to link it with this controller or another one.		



Click on the desired line and click on OK



The logger is then placed in the list of "Linked Devices".

Linked Devices

Description	EUI	Device
Temperature logger with High Power Radio	801F12FFFE35ACA1	FN2051
*The above devices are currently linked with this controller, click on a device to unlink it.		

Unlinked Devices

Description	EUI	Device
Temperature logger with High Power Radio	801F12FFFE358F9F	FN2051
*The above devices are not linked with any controller, click on a device to link it with this controller or another one.		



Note: A FoxNet Logger can only be linked to one Controller. If you want to change the association, click on the corresponding line in the "Linked Devices" category and choose Yes

II. Installation of your Sensor Net Connect and Sensors

A. Installation of Net Device Manager Software

Install this software on a Windows PC that will work 24x7. Deactivate the automatic shutdown mode in the energy saving settings

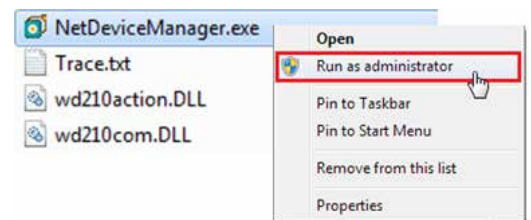
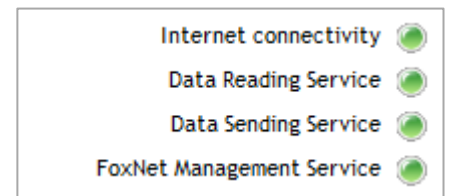
This computer can work on any version of Windows and Windows Server, on a physical or virtual machine.

- Download the software at http://thermobouton.fr/ftp/plugandtrack/Thermotrack-Webserve/NetDeviceManager/Install_NetDeviceManager.exe
- Open the downloaded file and follow the installation steps.

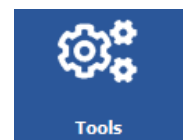
Check that the Windows services are properly started.

If one of the lights is red:

- Close Net Device Manager (Password = netdevice)
- Go to the directory
C:\Program Files (x86)\Proges-Plus\NetDeviceManager
- Right-click on the NetDeviceManager.exe file and choose the option "Open as administrator"



If the Internet Connectivity indicator is red, you may be using a **proxy**. Fill in the available settings in the "Tools" menu



Proxy

Use a proxy server

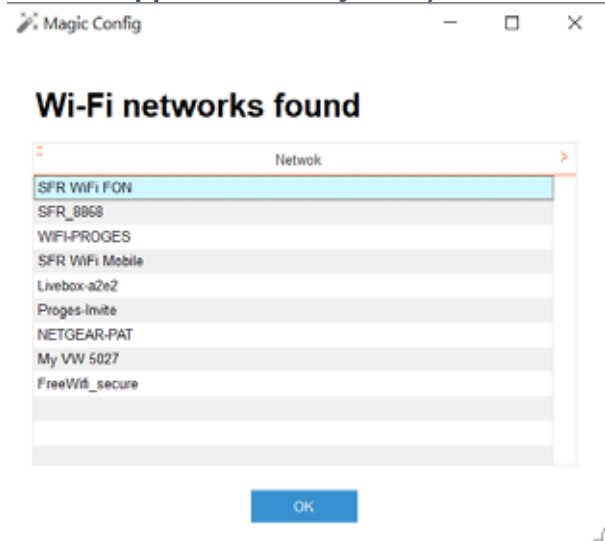
IP Address:	<input type="text" value="192.168.1.100"/>
Port:	<input type="text" value="80"/>
Login:	<input type="text" value="mylogin"/>
Password:	<input type="password" value="••••••••"/>

If you use fixed IP addresses, also indicate this in the "Tools" page

B. Installation of a Wi-Fi Sensor Net Connect

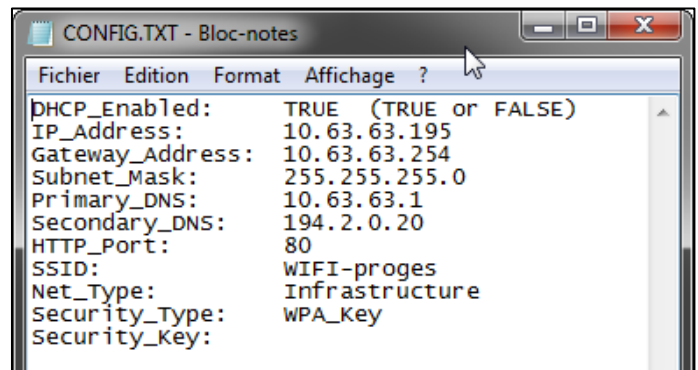
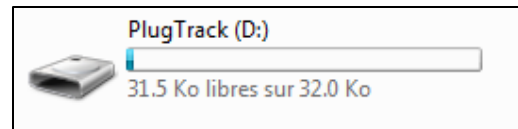
1. Automatic setup (Sensor Net Connect shipped since July 2021)

- Download "[Magic Config](#)" software
- Plug the Sensor Net Connect to the PC using the USB cable
- Search for the Wi-Fi networks and select the one you want to use.
- If the Wi-Fi settings are known on your PC, they are pasted in the Sensor Net Connect
- Click OK



2. Manuel setup

- Use a USB-A male-to-micro USB-B male cable. This is the easiest method
- Connect the Sensor Net Connect Wi-Fi to the USB port of your PC using the USB / Micro USB cable
- The Config.txt file will open automatically. If this file does not open automatically, you will find it displayed as a new external disk. Double click on this disk and open the file Config.TXT



Enter the corresponding values

- If you use dynamic IP addresses, leave the first line in "DHCP_Enabled: TRUE".
- If you use Fixed IP addresses, change the first line to "DHCP_Enabled: FALSE" Then enter the IP addresses of the Sensor Net Connect, gateway, subnet mask, primary and secondary DNS.
- SSID: Enter the name of the Wi-Fi network that will be used
- NET_Type: Specify the type of network (usually "Infrastructure")
- Security_Type: Specify the type of security key (WEP, WPA, WPA, WPA2 - See below)
- Security_Key: Specify the value of the security key

Save the file before disconnecting the cable

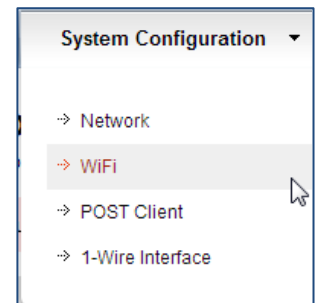
Security type

- WEP_40: Wired Equivalent Privacy requires 5 ASCII characters or 10 hexadecimal characters (0-9 or A-F).
- WEP_104: Wired Equivalent Privacy requires 13 ASCII characters or 26 hexadecimal characters (0-9 or A-F).

- WPA_Key: Wi-Fi Protected Access, also called WPA-Personal. Requires 64 hexadecimal characters (0-9 or A-F).
- WPA_Auto_Key: Device will connect to access point using WPA2-Personal if it is supported, otherwise it will use WPA-Personal. Requires 64 hexadecimal characters (0-9 or A-F).
- WPA_Passphrase: Wi-Fi Protected Access, also called WPA-Personal. Requires between 8 and 63 ASCII characters.
- WPA_Auto_Passphrase: Device will connect to access point using WPA2-Personal if it is supported, otherwise it will use WPA-Personal. Requires between 8 and 63 ASCII characters.
- WPA2_Key: Wi-Fi Protected Access II, also called WPA2-Personal. Requires 64 hexadecimal characters (0-9 or A-F).
- WPA2_Passphrase: Wi-Fi Protected Access II, also called WPA2-Personal. Requires between 8 and 63 ASCII characters.
- Notes:
- WPA-Enterprise and WPA2-Enterprise are not supported.
- WEP is the only security mode supported for AdHoc.
- WPA_Passphrase and WPA2_Passphrase revert to WPA_Key or WPA2_Key after the settings have been saved.

3. Setup without a USB cable

- Connect the Sensor Net Connect to its power supply near a PC equipped with a Wi-Fi card.
- On the PC, join the network called "EDS-WI-FI"
- Open your web browser and enter the address <http://169.254.1.1>
- Open the "Wi-Fi" link in System Configuration".
- Enter the login "**admin**" and the password "**progesplus**"
- Enter the values corresponding to the Wi-Fi network to be used



WLAN Type: AdHoc
 Infrastructure

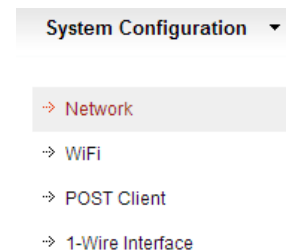
SSID Name: EDSWIFI

Security Type: Open

Security Key:

Save

- Open the "Network" link in "System Configuration".



- In the next window, change the IP address and DHCP if necessary.

Enable DHCP

IP Address: 169.254.1.1

Gateway: 169.254.1.1

Subnet Mask: 255.255.0.0

Primary DNS: 169.254.1.1

Secondary DNS: 169.254.1.1

HTTP Port: 80

Save

C. Installation of a wired Sensor Net Connect

If you use dynamic IP addresses (DHCP) simply connect the Sensor Net Connect to the network and a power supply

If you use fixed IP addresses, you must set these addresses

1. Automatic setup (Sensor Net Connect shipped since July 2021)

- Download "[Magic Config](#)" software
- Plug the Sensor Net Connect to the PC using the USB cable
- Check the Network settings Click OK

Choose the preferred configuration

Dynamic IP address	<input type="button" value="Oui"/>
IP address	<input type="text" value="169.254.1.1"/>
Subnet mask	<input type="text" value="255.255.0.0"/>
Default gateway	<input type="text" value="169.254.1.1"/>
Preferred DNS server	<input type="text" value="169.254.1.1"/>
Alternate DNS server	<input type="text" value="169.254.1.1"/>
Port HTTP	<input type="text" value="80"/>
MAC address	<input type="text" value="08-01-A3-00-00-00"/>
<input type="button" value="OK"/>	

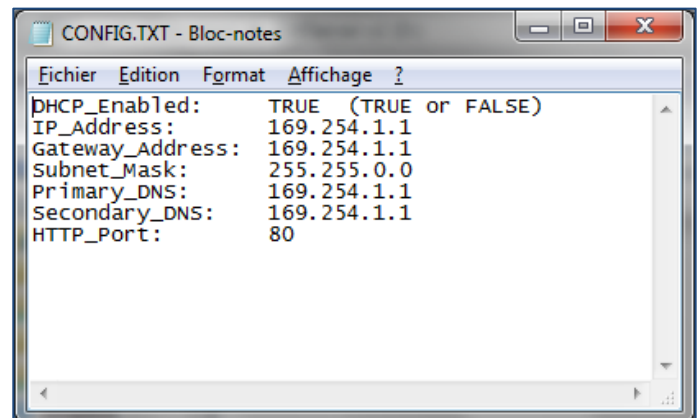
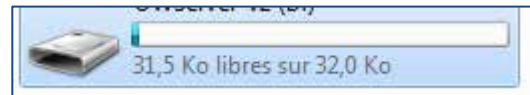
2. Manual Setup

Connect the Sensor Net Connect Wi-Fi to the USB port of your PC using the USB / Micro USB cable

The Config.txt file will open automatically. If this file does not open automatically, you will find it displayed as a new external disk. Double click on this disk and open the file Config.TXT

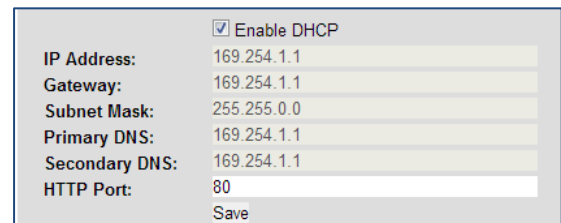
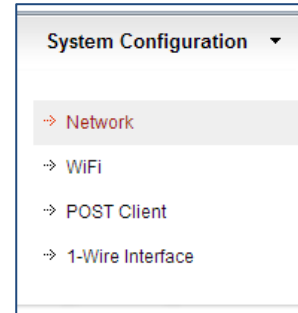
Enter the corresponding values

- If you use dynamic IP addresses, leave the first line in "DHCP_Enabled: TRUE".
- If you use Fixed IP addresses, change the first line to "DHCP_Enabled: FALSE". Then enter the IP addresses of the box, gateway, subnet mask, primary and secondary DNS.
- Save the file before disconnecting the cable.
- Now connect the Sensor Net Connect to a network socket



3. Setup without a USB cable

- Plug the Sensor Net Connect into its power supply and into the network
- Open your web browser and enter the address <http://169.254.1.1>
- Open the "Network" link in "System Configuration".
- Enter the login "**admin**".
- And the password "**progesplus**".
- In the next window, uncheck the box "Enable DHCP" and enter the IP address
- In the next window, uncheck the box "Enable DHCP" and enter the IP address

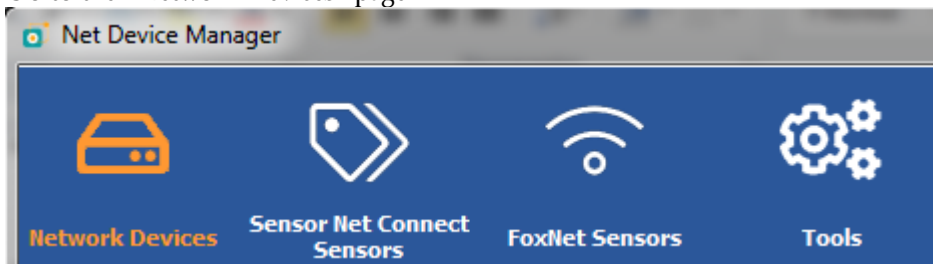


The image shows a network configuration form with the following fields and values:

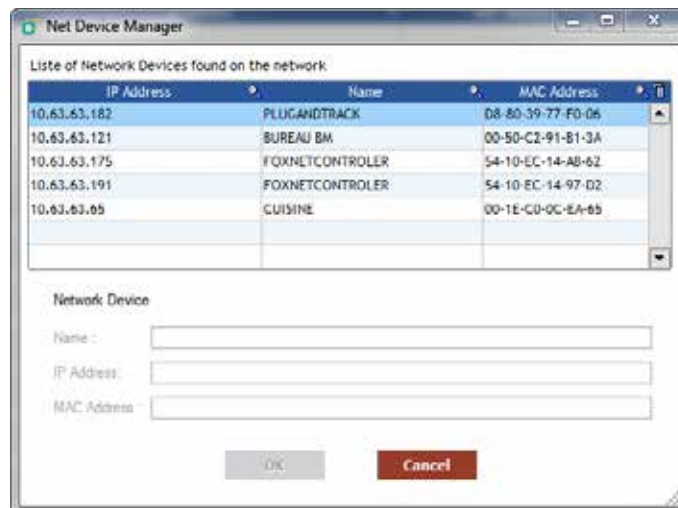
<input checked="" type="checkbox"/> Enable DHCP	
IP Address:	169.254.1.1
Gateway:	169.254.1.1
Subnet Mask:	255.255.0.0
Primary DNS:	169.254.1.1
Secondary DNS:	169.254.1.1
HTTP Port:	80
Save	

D. Detection of Sensor Net Connect and probes

- Make Open the Net Device Manager software
- Go to the "Network Devices" page



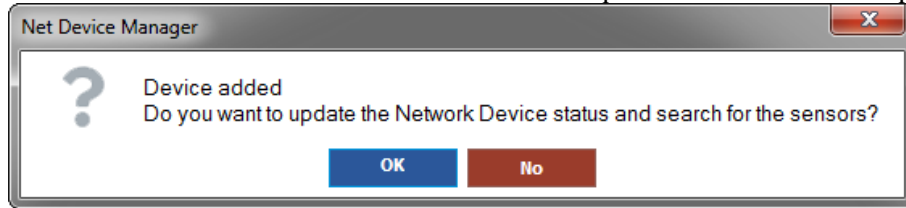
- Press the "New" button to start detecting the Sensor Net Connect



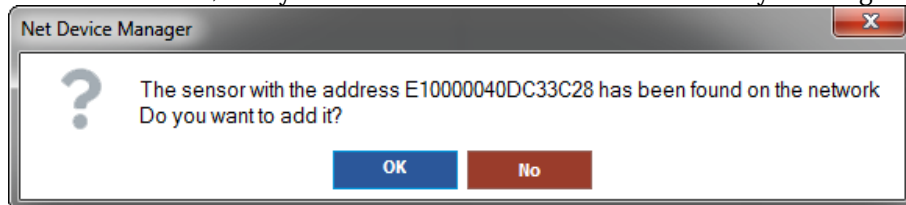
- The Sensor Net Connect(s) available on your network are automatically detected by their IP address or Mac address.
- Click on the Sensor Net Connect line you want to configure.
- Enter a name for this Sensor Net Connect (example: Laboratory)
- Click on OK and proceed to the next step

E. Automatic sensor detection

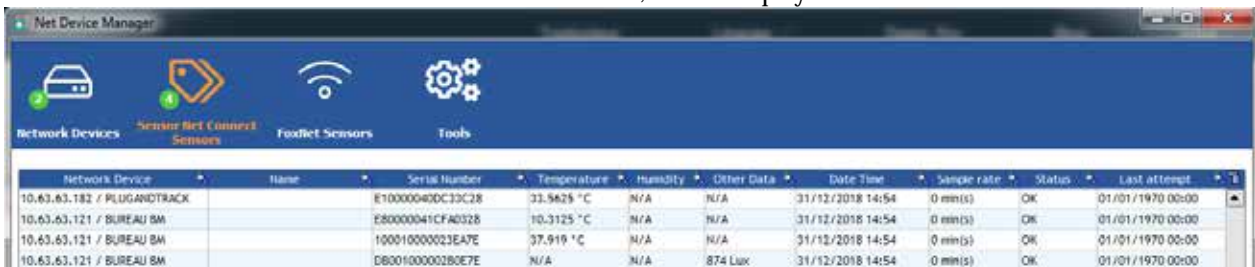
- When you have added a new Sensor Net Connect, the automatic probe detection window appears



- Click OK to start automatic sensor detection
- As soon as a sensor is detected, the system indicates its serial number and asks you to register the sensor.

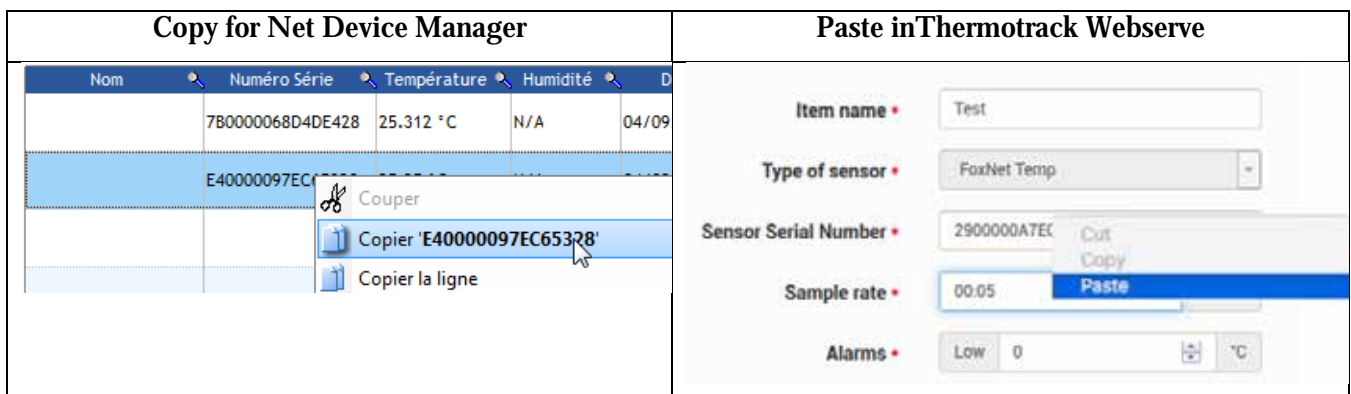


- Click on Yes to continue
- Go to the Sensor Net Connect Sensor Sensors screen, which displays a list of the sensors detected



F. Entering the Sensor in Thermotrack-WebsERVE

- In the Net Device Manager software, select the serial number of the probe you want to install. Right click and "Copy" the serial number
- Open Thermotrack-WebsERVE and create Equipment.
- In the "Probe type" field select "FoxNet Temp" or FoxNet TH depending on the probe type and paste the serial number.



Then enter the other information required to create an item

G. Close the Net Device Manager software

To avoid unintentional closures, a password is required. The password is **netdevice**

If you stop the Net Device Manger software, the data will continue to be recorded and alarms will be sent.

The recording works as a service, i. e. even if the software is switched off, the temperatures are still recorded...

H. Using the Sensor Net Connect without Net Device Manager Software

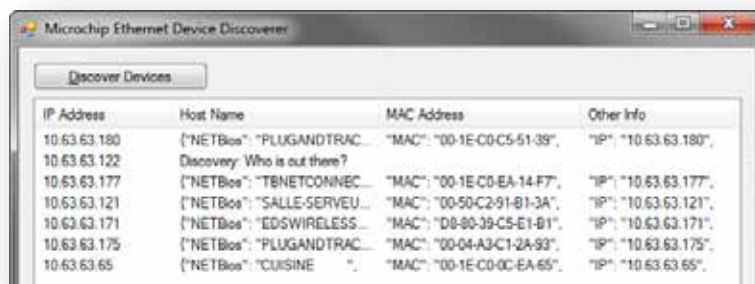
It is possible to use the Net Connect Sensor without the Net Device Manager software, by setting them up for sending in POST http.

This frees you from the use of a PC on site but presents some constraints:

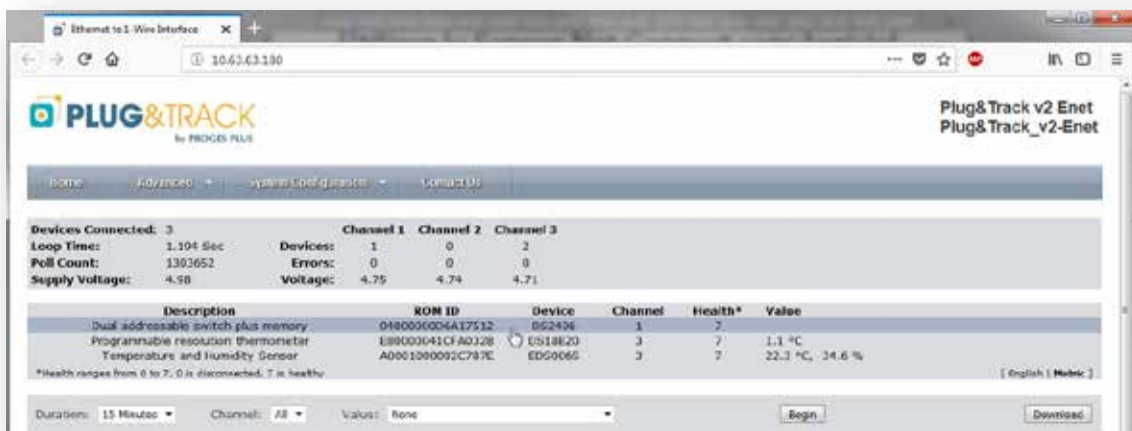
- You must not use a proxy on site
- You must choose the measurement frequency from the Sensor Net Connect. This frequency will be the same for the 2 probes connected to the Sensor Net Connect. It will not be possible to modify from Thermotrack-Webserve. It is essential that the frequency entered in Thermotrack Webserve is the same as that entered in Sensor Net Connect (to avoid unjustified non-detection alarms)
- The dates of the change from summer to winter time must be known in advance by the Universal Time Servers (NTP)
- If the Sensor Net Connect loses its Internet connection for a period of time, there will be no data recorded during that period

1. Set the Sensor Net Connect

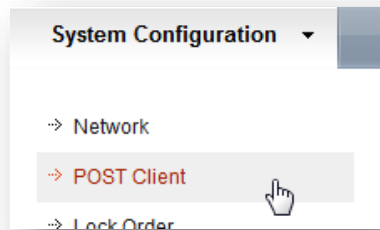
1. Download and Install **Microchip Ethernet Discoverer** at <http://thermobouton.fr/ftp/plugandtrack/Thermotrack-Webserve/Microchip%20Ethernet%20Discoverer.exe>
2. Open Microchip Ethernet Discoverer



3. Select on line. It opens the Sensor Net Connect data in your Internet Browser



- In the menu “System Configuration” choose “POST Client” Enter the login(admin) and password (progesplus)



POST Client Configuration

Use this page to configure the automatic sending of data to an HTTP server using POST.

Enable Client:	<input checked="" type="checkbox"/>
POST Header:	<input checked="" type="checkbox"/>
Data Type:	XML
URL:	https://www.thermotrack-webservice.com/php/Post_SNC.php
Period:	60 seconds

- Enable Client** et **Post Header** : Check the 2 boxes
- URL** : copy and paste the address depending on your time zone (winter time)
 - For Paris https://www.thermotrack-webservice.com/php/Post_SNC.php
 - For other time zones add between SNC and .php “_UTC” or “_UTC+ offset” or “_UTC-Offset” as per example below

UTC	https://www.thermotrack-webservice.com/php/Post_SNC_UTC.php
UTC+8	https://www.thermotrack-webservice.com/php/Post_SNC_UTC+8.php
UTC-6	https://www.thermotrack-webservice.com/php/Post_SNC_UTC-6.php

Do not consider Day light saving. Thermotrack-Webservice will do this for you

- Period**: Enter how often the Sensor Net Connect will send data to Thermotrack Webservice. Enter 900 for a 15 minutes transmission. Never use a value below 300.
- Proxy** : If you use one, enter its IP address and port
- Click “**Save**”

2. Set Sensors

- Click “**Home**” to see the list of connected sensors

System Configuration						
Devices Connected: 3						
Loop Time:	1.194 Sec	Devices:	1	0	2	
Poll Count:	1307978	Errors:	0	0	0	
Supply Voltage:	4.96	Voltage:	4.78	4.77	4.72	
Description	ROM ID	Device	Channel	Health*	Value	
Dual addressable switch plus memory	0400000006A17512	DS2406	1	7		
Programmable resolution thermometer	E80000041CFA0328	DS18B20	3	7	1.2 °C	
Temperature and Humidity Sensor	A0001000002C787E	EDS0065	3	7	22.7 °C, 33.4 %	

*Health ranges from 0 to 7, 0 is disconnected, 7 is healthy

2. Double click on the line you want

Programmable resolution thermometer

1.2 °C

Temperature:	1.2 °C	Device:	DS18B20
User Byte 1:	15	Health:	7
User Byte 2:	10	Channel:	3
Resolution:	12	ROM ID:	E80000041CFA0328
Power Source:	255	Description:	Programmable resolution thermometer
		Connection Status:	

3. Do a triple click on the serial number (ROM ID).
4. Copy the serial number (CTRL + C)
5. Create the Item in Thermotrack Webserve and paste the serial number in the field "Sensor Serial Number" (CTRL + V)
6. Enter the Sample rate (MUST be the same as "Period" in the Sensor Net Connect)

Set up :

Item name *

Type of sensor *

Sensor Serial Number *

Sample rate *

Alarms *

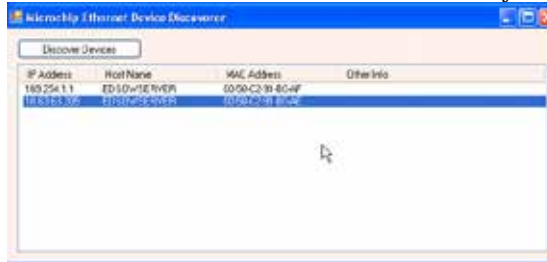
7. Set the other fields and save

III. Installation of a TB Net Connect

A. Installation on the Network

1. Using Fixed IP address

- On the CD Rom, copy the “Microchip Ethernet Discoverer.exe” program directly on your computer. Or download it [by clicking this link](#).
- Plug the TB Net Connect directly on the Ethernet port (network socket) of your PC and run the Microchip Ethernet Discoverer program. The TB Net Connect will be automatically detected.



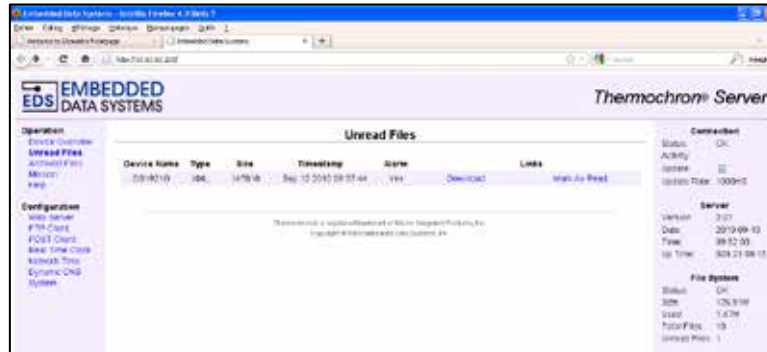
- Read the IP address displayed in the Microchip Ethernet Discoverer window and set your local network connection with a similar address.

Example:

- If the address displayed in the window is 192.168.1.10
- Set your PC with an address like 192.168.1.20

Warning: Before modifying the IP address of your PC, note the address that has been used until now.

- Double click on the TB Net Connect that you want to set up. The following page will be displayed in your Internet browser.



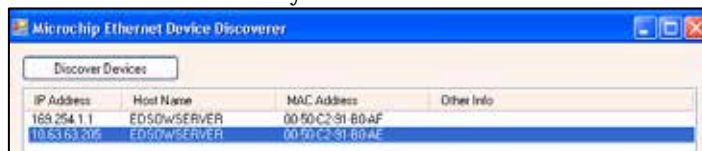
- Use the menu “Web Server». The login is “admin”; the password is “progesplus”. After having entered these identification data, the IP address configuration window will be displayed.
- In the field “Host Name” enter a name for this TB Net Connect. Example: TBNC
- Untick the box “Enable DHCP”
- Enter the IP addresses given by your network administrator
- Click “Save”

Device Name:	<input type="text"/>
User Name:	<input type="text" value="admin"/>
Password:	<input type="password" value="•••"/>
Password:	<input type="password" value="•••"/>
Host Name:	<input type="text" value="THERMOCHRONSVR"/>
Enable DHCP:	<input type="checkbox"/>
IP Address:	<input type="text" value="10.63.63.203"/>
Gateway:	<input type="text" value="10.63.63.254"/>
Subnet Mask:	<input type="text" value="255.255.255.0"/>
Primary DNS:	<input type="text" value="10.63.63.1"/>
Secondary DNS:	<input type="text" value="194.2.0.20"/>
HTTP Port:	<input type="text" value="80"/>
	<input type="button" value="Save"/>

- Connect the TB Net Connect on your network
- Reset your computer IP address with the address used previously

B. If you use dynamic IP Addresses (DHCP)

- On the CD Rom, copy the “Microchip Ethernet Discoverer.exe” program directly on your computer.
- Plug the TB Net Connect directly on the Ethernet port of your PC and run the Microchip Ethernet Discoverer program. The TB Net Connect will be automatically detected.



- In this window, double click the TB Net Connect to open the configuration page.

C. Set up your TB Net Connect for Thermotrack Webservice

In the menu situated on the left of the page, choose the option “POST http”. The login is “admin” and password “progesplus”. The following window will be displayed:

Operation Device Overview Unread Files Archived Files Mission Help	POST Client Configuration	
	Use this page to configure the automatic sending of files to an HTTP server using POST.	
Configuration Web Server FTP Client POST Client Real Time Clock Network Time Dynamic DNS System	Enable:	<input checked="" type="checkbox"/>
	URL:	<input type="text" value="http://www.thermotrack-websolve.com/php/Post_TbNetConnect.php"/>
		<input type="button" value="Save"/>
	Notes:	

- Tick the box « Enable » and in the URL field, enter the following address :

http://www.thermotrack-websolve.com/php/Post_TbNetConnect.php

- Click “Save”

In the menu situated on the left of the page, choose the option “System”. The login is “admin”; the password is “progesplus”. The following window will be displayed:

Once downloaded, the Button is automatically reset with the same parameters.

The screenshot shows a configuration window titled "Thermochron File Formats". It contains the following settings:

- Binary Hex (.HEX):
- Text (.TXT):
- Comma Separated Values (.CSV): (Required for viewing Thermochron data)
- eXtensible Markup language (.XML):
- Enable "Mark As Read" Column:
- Maximum Files:
- Year Offset:
- Temperature Units: Centigrade, Fahrenheit
- Action on Data Retrieval: Do Nothing, Stop Mission, Stop Mission - Retrieve Data - Start Mission, Stop Mission if Alarm is Active
- Download Mission Start Delay: Minutes
- Read Interval: Hours, Minutes
- Require Password for All Operation Pages:
- Name:
- Password:
- Save button

- Tick the box eXtensible Markup Language (.XML)
- Action on Data Retrieval: Choose the function you want to use when reading a Button:
 - **Do nothing:** the temperatures are sent to Thermotrack Webserve
 - Stop mission: the mission is stopped, the data are sent to Thermotrack Webserve
 - **Stop mission – retrieve Data – Start Mission:** the mission is stopped, data is sent to Thermotrack Webserve, and the mission of the Thermo Button is relaunched (the previous data are deleted and the Thermo Button is reset with the same parameters).
 - Stop mission if alarm active: the mission of the Thermo Button will stopped in case of alarm

If you use Thermotrack Webserve, you have to choose the option 1 (Do nothing) or 3 (Stop mission – Retrieve data – Start mission)

- Read Interval: Enter the value 0 in the fields “hour” and the value “30” in the fields “Minutes”. If you want to change this value, you don’t have to enter a value higher than 59 in the fields “Minutes”.
- Click “Save”

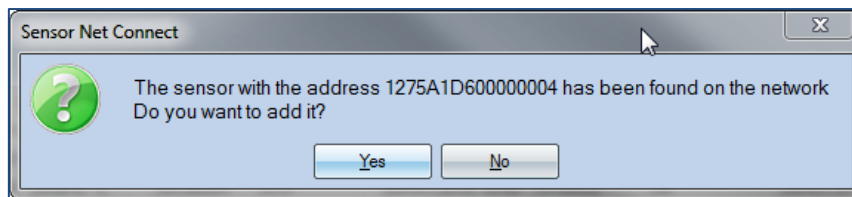
IV. Siren

A. How to install a Siren

1. Power the Siren on a 230V power source. The power adapter must be set to 9V
2. Plug the RJ12 cable on a free port of a Sensor Net Connect. It is possible to use a cable extension (3, 10 or 25 meters)

A Siren can be plugged on any Sensor Net Connect, even plugged on another network

3. Open the Net Device Manager software
4. Select the Sensor Net Connect on which you have plugged the Siren and click on the « Search Sensor » button. The serial number of the Siren is shown in a dialogue box. Click Yes to add it.



5. You will find the serial number in the list of sensor with the value Input A :1

Name	Serial Number	Temperature	Humidity
	1275A1D600000004	Input A : 1	Input B : 1
Door_Fridge_1	12DE96D600000075	Input A : 0	Input B : 1

6. Copy the serial number doing a right click.
7. In Thermotrack-Webserve open the setting page of an Item you want to assign the Siren to and do the following:
 - Paste the serial number in the field "Relay Input Serial Number ».
 - Set the default value to 1 and save.

Note 1: You can assign a Siren to multiple sensors

Note 2: The Siren is wired to use both the sound (100bd) and the stroboscopic LED. It is possible to have only the LED. Open the Siren, unplug the Red wire and plug the White one.

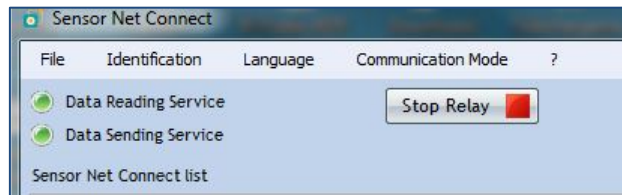
B. How to close a Siren

There are two possibilities to stop a Siren

Either by opening the page of an item that has a Siren. Click on the “Stop Relay” button. It may take till one minute before the Siren stops



Or by opening the Net Device Manager software and pressing the Stop Relay button



C. How to choose between sound and light

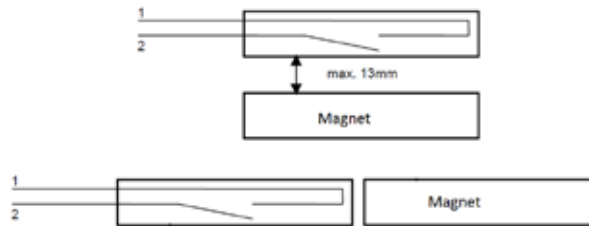
The siren is configured with low sound and no light. You can change configuration

- by connecting either the red or the white contact in the connection box.
- Selecting the power source

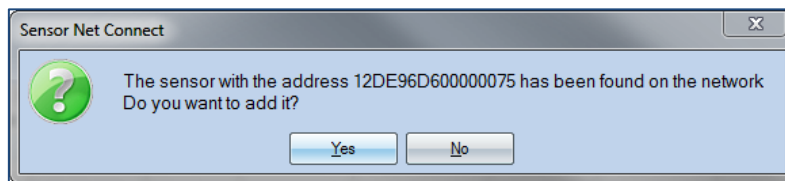
Type of Siren	Connector used	Power
Low sound	Red	3 V
High sound	Red	4.5 V
Very high sound	Red	5 V
Low light	White	6 V
Normal light	White	7.5 V
Maxi Light	White	12 V

V. Door opening sensor

1. Plug the RJ12 cable on a free port of a Sensor Net Connect. You can use a cable extension of 3, 10 or 25 meters
2. Stick the first contact on the door frame and the other one on the door. Check the two contacts are close enough (max = 13 mm=).



3. Open the Net Device Manager software
4. Select the Sensor Net Connect on which you have connected the sensor and press the « Search Sensor Button ». The serial number is shown. Click « Yes » to add it



8. You will find the serial number in the list of sensors, with Input A: 0

Name	Serial Number	Temperature	Humidity
	12DE96D600000075	Input A : 0	Input B : 1
Temp-Hygro-Sensor	7E782C00001000A0	24.9375 °C	43.5625%

9. Copy the serial number, doing a right click.

10. Open Thermotrack Webserve and create a new Item with the following settings :
 - Type of Sensor : Rely Output
 - Paste the serial number
 - Set the default value to 0
 - Sample rate to 1 minute
 - Set the delay before it will generate an alarm

You can then set who will received the alarms and how (SMS, Email, Pop Up, Siren)

⚙️ Set up :

Active Item

Item name *

Type of sensor *

Sensor Serial Number *

Default value *

Sample rate * hh:mm

Alarm delay hh:mm

Alarm reminder frequency hh:mm

VI. Create / modify Locations and Zones

For more clarity in the information and to be able to react quickly in case of alarm, Thermotrack-Webserve enables you to sort your Items by Locations and Zones.

You can create, modify and delete Locations and Zones

You can create, modify and delete the zones associated to the locations.

VII. Create / Modify Items

To create Item, you first have to indicate its localization, i.e. the location and the zone where it will be situated (locations and zones that you previously created).

A. Temperature, Temperature and Humidity, Pressure with Sensor Net Connect (SNC)

Note: You first need to add the sensor in the Net Device Manager software. See section II.D Detection of Sensor Net Connect and probes.

Choose the location, Zone and Name of the new Item.

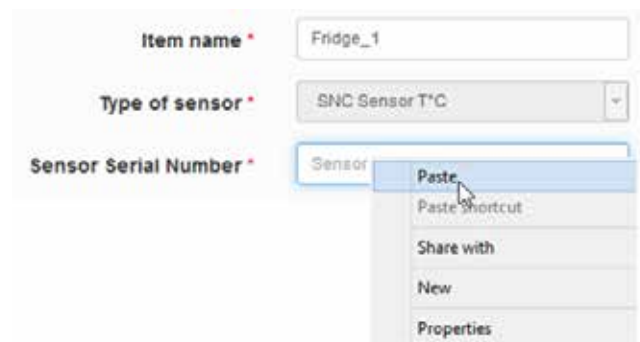
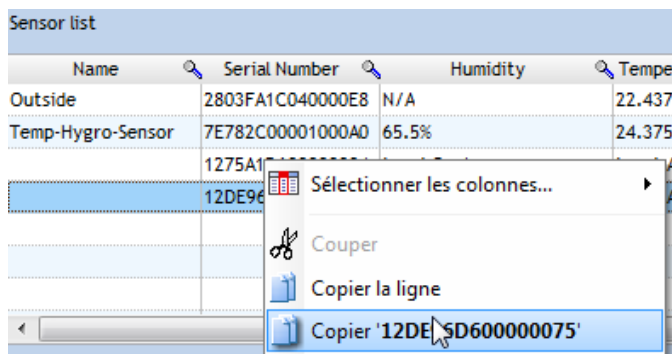
Enter the serial number of its sensor

You can copy it directly from the Net Device Manager software with a right click on the serial number that corresponds to the sensor and by choosing "Copy".

Go back to Thermotrack Websurve, and with a right click in the field sensor N°, choose "Paste".

Copy from Sensor Net Connect software

Paste to Thermotrack-Websurve



- **Sample rate**
Indicate the rate with which the Button will measure the temperature. If you increase this value, you will increase the possible duration of the mission.
- **High alarms, Low alarms**
Enter the mini and the maxi thresholds for the alarms.
- **Temporization**
Enter the grace period for the alarms. An alarm is non-critical if its duration is lower than the temporization. In this case, the alarm will be displayed in orange in the list of alarms. Click ok.
- **Reminder each**
If you want alarm to be sent regularly until the sensor is back to normal and the alarm is justified (if Alarm justification as activated)
- **Deactivate the alarms justification:**
If this box is ticked, you will have to enter a justification for each alarm. The alarm will be considered as closed when the temperature reaches "normal" values AND when the justification is made. If this box is unchecked, the alarm will be considered

Active Item

Item name *

Type of sensor *

Sensor Serial Number *

Sample rate *

Alarms * Low

High

Alarm delay

Alarm Reminder

Deactivate alarms justification

as closed only when temperature reaches “normal” values.



Warning: You will not receive any further alarms until the previous one is justified and the value has returned to normal.

B. 4.20 mA sensors with Sensor Net connect

If you connect a 4.20 mA sensor, enter the values at 4 and 20 mA and the unit Measurement (CO2, Bars...)

Value of 4 mA *	<input type="text" value="0"/>
Value of 20 mA *	<input type="text" value="100"/>
Unit *	<input type="text"/>

C. Relay

The relay device can monitor the status of an Item that has a dry contact (Door opening, normal status of an item, etc.)

Choose Relay as type of sensor and paste the serial number from the Sensor Net Connect Software.

Set also the default value 0 or 1 depending on the state (open or close) you need to monitor) then set other parameter like for other sensors

Item name *	<input type="text"/>
Type of sensor *	<input type="text" value="Relay Output"/>
Sensor Serial Number *	<input type="text"/>
Default value *	<input type="text" value="0"/>

D. Thermo and Hygro Buttons

First install the TB Web Link software from the link in the left menu

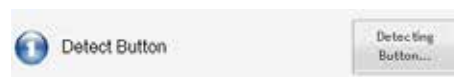


1. Create / Modify an Item with an Thermo or Hygro Button

In the main Menu of TBWeb link, choose the menu “Create / Modify Item”



Click the Detect Button



Click the “Create New Item” or Modify Item button



Thermotrack Webserve opens at the appropriate page.

Then, enter the mission parameters for your Thermo Buttons.

Resolution: (Buttons 22L and 22T only)

Indicate the required resolution. If you choose 0.1°C, the memory will have 4096 points. If you choose a resolution of 0.5°C, the memory will have 8192 points.

Sample rate

Indicate the sample rate you want for the Button. If you increase the sampling interval, you will increase the duration of the mission.

High alarms, Low alarms

Enter here the low and high thresholds that the Button should not exceed.

Temporization

Enter here the grace period for the alarms. You can decide that an alarm is not critical if its duration is lower than the temporization. In this case, it will be displayed in orange in the list of alarms.

Item name *	My-New-Button
Type of sensor *	Thermo Button
Sensor Serial Number *	8C00000029F88A21
Type of Button *	21G
Resolution *	0,5
Sample rate *	00:00 hh:mm
Alarm delay	00:00 hh:mm
Alarm reminder frequency	00:00 hh:mm
Count down	0 Min(s)
Alarms *	Low -40 °C
	High 85 °C
	<input checked="" type="checkbox"/> Rollover
	<input checked="" type="checkbox"/> Deactivate alarms justification

Count Down

Enter here the time before mission start.

Rollover:

You HAVE to tick this box if you read Thermo Buttons with a TB Net Connect.

Deactivate the alarms justification

If this box is ticked, you will have to enter a justification for each alarm. The alarm will be considered as closed when the temperature reaches “normal” values AND when the justification is made.

If this box is unchecked, the alarm will be considered as closed only when temperature reaches “normal” values.

Periodicity of Download

Set when the Button has to be downloaded. If not download in due date, the status on the home page will be “No download” and this will appear in the No Download report

Every <input checked="" type="radio"/>	1	Day(s) From	31/12/20	At	11:23	hh:mm
Every <input type="radio"/>	0					(TbNetConnect)

When all settings are enter, click OK and go back to TBWeb Link and Mission the Button

 Mission the Button

2. Download of a Button

To read a Button, use the “Download” icon in TB Web Link. Place the Button on the reader. Once downloaded, the graph will open in Thermotrack Webserve. The mission will also be relaunched. The memory will be cleared to enable new samples.



3. Mission Relaunch

At any time, you can relaunch the mission to clear data on board the Button and start with a fresh memory. (For instance, when leaving for a new shipment). The missions setting are not affected.

E. Siren – Relay alarm

You can use a siren to alert in case of an excursion. You can also change status of a relay to command a third party device.

When using such a device, open the Item settings and see the “Relay Input” section. Enter here the serial number of the siren and its default value (0 or 1, open or closed).

Note that the same siren or relay can be used for several items.

Set up :

Active Item

Item name * Fridge-2

Type of sensor * SNC Sensor T°C

Sensor Serial Number * 287EC70D040000E5

Sample rate * 00:01 h:mm

Alarms * Low: 0 °C, High: 8 °C

Alarm delay 02:00 h:mm

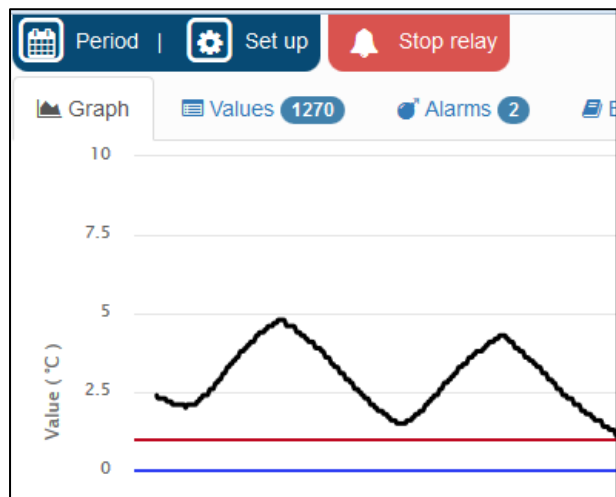
Alarm reminder frequency 00:00 h:mm

Relay Input serial number 12E42CD6000000B6

Default value 1

When the siren is on, you can shut it down by opening the graph of the Item and by pressing the “Stop Relay” icon.

It might take up to 1 minute before the siren effectively stops



VIII. How to set alarm messages

When setting a sensor, you can set which user will receive alarms and how, also how frequent he gets reminders.

In the following example, M. BEL receive a first alarm by SMS, then M. BELTRAN will receive a reminder by Email 30 minutes later and then M. Bond by Pop-Up on his PC

Each reminder is also send to the previous person in charge

Item Responsibilities : Door_Fridge_1

Alarm reminder frequency hh:mm

User	Email <input type="checkbox"/>	SMS <input type="checkbox"/>	Pop-Up <input type="checkbox"/>	Alarm 1	Alarm 2	Alarm 3
BEL Akram	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Beltran Luis	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BOND James	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

IX. Create / Modify Users

A. Create / Modify users

You can create users you will share your data with. They will be Users, Administrators, Super Administrators or Dashboard according to the rights you give them.

- Users
 - Users can just read the Items they are responsible of.
 - They cannot create users, locations, zones or Items.
 - They do not have access to the Items situated in other locations or zones.
- Administrators:
 - They can see and do everything in the zones and locations they have access to and on the Items that are under their responsibility.
 - They can create new users only.
- Super Administrators:
 - They can do everything.
- Dashboard:
 - Dashboards help you to keep an eye on your critical sensors. It will generate an Internet address which you can open in a device (PC, Smartphone tablet) See an example below

The mobile number must contain the sign + and the country code, without spaces (+44172123456)

B. Accessibilities

Select the locations, zones and Items the user will have access to. See the tree view with the arrows.

Several users can access the same Items.



C. Responsibilities

Go to Item setting and press the Alarms button

Select each of the users you want to warn.

Select how you want each user to get alarms (Email, SMS, Pop-Up)

Item Responsibilities : Fridge-1

Alarm reminder frequency: hh:mm

User	Email <input type="checkbox"/>	SMS <input type="checkbox"/>	Pop-Up <input type="checkbox"/>	Alarm 1	Alarm 2	Alarm 3
Achilles Lynne	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
andreas andreas	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
astori astori	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Beltran Luis	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

If you want all users to receive the message at the same time, chose Alarm 1 for all

You can also use cascading alarms. Select a reminder frequency and select for each user if he gets the first, the second or the third alarm.

D. Type of Alarms

You can select which type of alarms a user will receive. For instance, the IT person will receive only alarms in case a sensor is not detected.

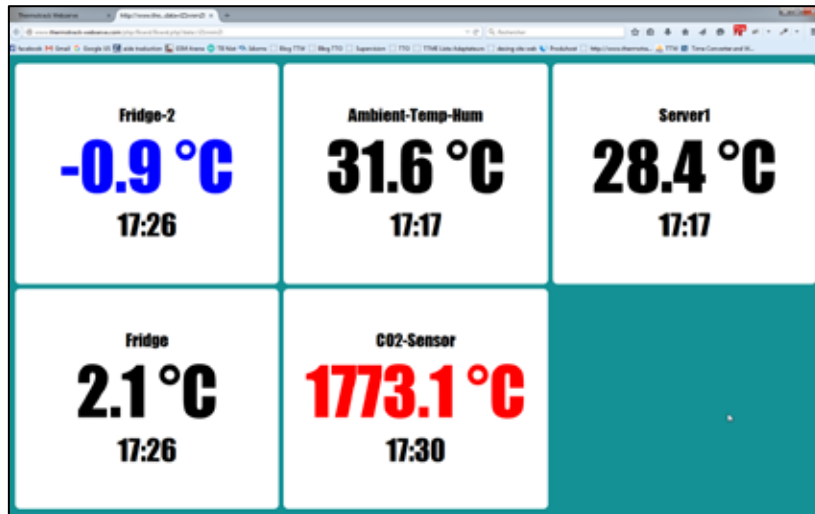
E. Calendar

You can specify which periods the user will get alarm using the calendar.

Day(s)	From	At
Saturday <input type="checkbox"/>	08 <input type="checkbox"/>	00 <input type="checkbox"/> 18 <input type="checkbox"/> 59 <input type="checkbox"/>
Sunday <input type="checkbox"/>	08 <input type="checkbox"/>	00 <input type="checkbox"/> 18 <input type="checkbox"/> 59 <input type="checkbox"/>

X. Dashboard

The dashboard is a different type of user who will only have an auto refresh dash board (see below)



Select the User and click “Set Dashboard” to select with items you want to display and its layout (number of lines and column).

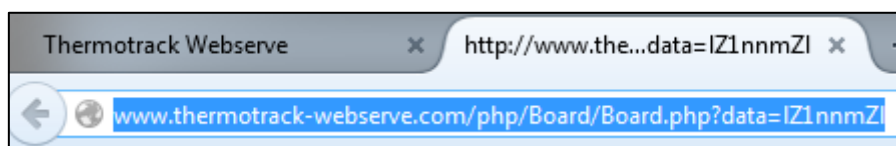
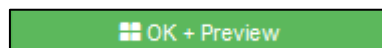
Selected Items 7

Layout Columns: 4 Lines: 3

Item name	Visible
1_Willems	
Coffee_Room	
Kitchen	
Fridge	<input checked="" type="checkbox"/>
Fridge_2	<input checked="" type="checkbox"/>
Meeting_Room	
Outside	
Street_Temp	<input checked="" type="checkbox"/>
RDC	
Server room	
Server1	<input checked="" type="checkbox"/>
Server2	<input checked="" type="checkbox"/>

Select the Sensors you want to have on your dashboard.

Press the “Preview” Button. It will show the dashboard. Copy the link and paste in an email to open it later on your phone or tablets or PC.



XI. Maps

You can import your maps, drag and drop the sensors on the maps and device which user will have the right to see these maps.

Add a map

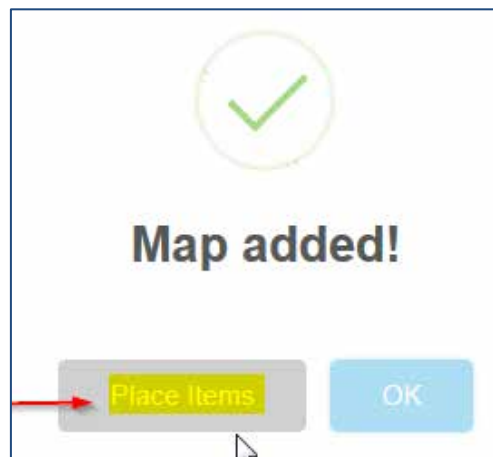
Press "Add a Map". Give it a name and description.

You must select a location, but choosing a Zone is not necessary

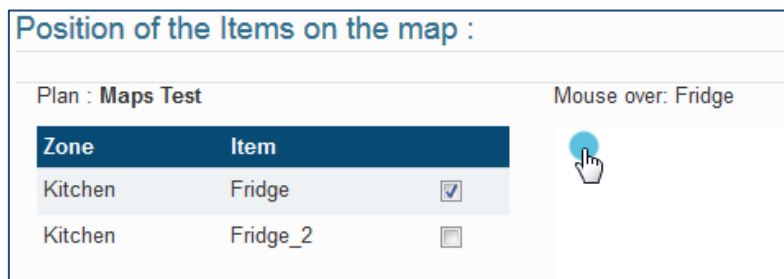
Add your picture using the "Browse" icon (Choose a low definition image format JPEG or PNG, max size of 350 KB

Select which users will be allowed to view this map, press OK

Once added, click Place Items



Now select an Item and drag and drop the blue dot on the map



Press OK to validate

You can now select maps on the home page.



XII. Calibration

You can adjust the values of your temperature sensors according the calibration certificates

Enter a valid serial number and copy the calibration certificate values.

You can use linear calibration (from 1 to 5 points) or quadratic (3 references points are needed)

30 days before expiration date, users will receive an alert, informing them to re do the calibration.

Serial number *	285EE07F0300002F	
Calibration Date *	18/02/2016	
Expiration date *	18/03/2016	
Performed by	Mikael	
Number of points *	3	
Calibration method *	Linear	
Comment	no comment	

Data from calibration certificate :

Reference °C	Sensor °C	Uncertainty
-20.00	-20.10	0.06
0.00	0.15	0.06
20.00	19.95	0.07

XIII. Automated PDF Reports

Thermotrack Websolve enables to create 2 types of reports that are periodically sent by Email in PDF to the person you choose.

A. Report Graphs and Alarms

To create a new report, click "New".

- Enter the name of the report and select the Items that will be included
- Select the period you want to see in the report (for example, every 2 weeks)
- Enter the Email addresses of the recipients (if several addresses, separate them with ;)
- Select the frequency to which the report will be sent
- Click ok to confirm

The screenshot displays the 'Reports' configuration page. At the top, there are two tabs: 'Graphs & Alarms' (active) and 'Buttons not downloaded'. Below the tabs, the 'Weekly report' configuration is shown. The 'Name' field contains 'Weekly report'. The 'Display Data of' field is set to '1' with a dropdown menu showing 'Last' and 'Day(s)'. The 'Graphs' and 'Alarms' checkboxes are both checked. The 'Recipients' Email addresses' field contains 'tm@proges.com, ag@proges.com'. The 'Dispatch's periodicity' field is set to 'Every 7' with a dropdown menu showing 'day(s) starting' and '14/10/2016'. Below the form, there is a tree view of 'Items' with a mouse cursor pointing to the 'Kitchen' item. The tree view includes: 1_Willems, Kitchen, Fridge, Fridge_2, Outside, Street_Temp, and Saper room.

B. Report Thermo Button not downloaded

You can receive a report when the Thermo Buttons are not downloaded according to the download frequency entered.

- Enter the name of the report and select the Items that will be included
- Enter the Email addresses of the recipients (if several addresses, separate them with ;)
- Select the frequency to which the report will be sent
- Click ok to confirm

Reports

Graphs & Alarms **5** Buttons not downloaded **0**

+ Add Report

Name *

Recipients' Email addresses (separated by ;) *

Dispatch's periodicity *

Items:

- Labsystem
- Szerver-szoba
- Hordozható-fekete

XIV. Audit trail

The list of events displays all the actions that have been carried out. By default, you see the events of the last 24 hours, but you can also choose another period of time.

You can also filter the events by Users, Locations, Zones and Items.

By clicking « details » you see the situation before and after the event.

Events			
Date	Type of event	Item / User	Details
11/10/2016 16:10	Edit Item	Fridge_2	Details
11/10/2016 15:16	User login	Demo Do Not Modify	Details
11/10/2016 12:38	User login	Demo Do Not Modify	Details
11/10/2016 12:20	Edit Item	Fridge	Details
11/10/2016 12:17	User login	Demo Do Not Modify	Details
11/10/2016 11:51	User login	Demo Do Not Modify	Details

Type of event :
Edit Item

Author :
Do Not Modify Demo - 11/10/2016 12:20

	Before	After
Active Item	Yes	Yes
Location	1_Willems	1_Willems
Zone	Kitchen	Kitchen
Item name	Fridge	Fridge
Sensor Serial Number	286F68E200000098	286F68E200000098
Sample rate	00:15	00:15
Alarm delay	02:00	02:00
Alarm Reminder	00:00	00:00
Low	2 °C	2 °C
High	8 °C	8 °C
Deactivate alarms justification	Yes	Yes

XV. List of Alarms

The list of alarms shows:

- the Item name
- the start date and end date of the alarm
- the status (high or low alarm)
- if the alarm has been closed or not (justification)
- the value
- the detail of the justification

By default, you see the alarms of the last 24 hours, but you can choose another period of time.

You can also filter the information by Location, Zone and Item.

Item name	Start date	End date	Duration	Status	Value	Closed	Justification
Switches	10/10/2016 13:49	N/A	1 Day, 4 Hours, 35 Minutes	High Alarm	27.6 °C	No	Details
wacol	21/09/2016 15:07	N/A	2 Weeks, 6 Days, 3 Hours, 17 Minutes	Sensor not detected	26.7 °C	No	Details

XVI. Detail of an Item



Graph

The graph shows the values and the high and low alarm thresholds.

By default, the graph shows the values of the last 24 hours, but you can also select another period of time.

You can make a zoom on the graph by moving the cursors. This zoom will be active in the list of temperatures as well.

Values

This tab gives the list of measurements, min, max, average and MKT (Mean Kinetic Temperature)

Values are displayed in red in case of high alarms or in blue in case of low alarms.

Events

The list of Events gives the detail of each modification of a sensor (date and time of the modification, person, setting modified)

Justify

You can select an alarm and enter a justification, i.e. a corrective action to close the alarm.

Note Pad

You can enter your notes concerning the Item.

You can also directly access this tab with a double click on Item in the list of the Items in alarm, situated in the home page.

A. Modification of the period of analysis

By default, you get the last 24 hours. Open the detail of an Item, select Period and change accordingly. This period will be the same until you log off.

B. Quick change of settings

Open the detail of an Item and press "Setting"

Period | Set up

Item: Fridge_2
Serial number: 287EC70D040000E5
Location: 1_Willems
Zone: Kitchen

High: 10 °C
Low: 2 °C
Alarm delay: 02:00

Sample rate: 00:10

Settings