THERMOSCAN IP USER MANUAL

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1 Install ThermoScan IP

Insert the CD ROM in the reader. The installation menu appears automatically.

Click « Install ThermoScan IP »



The installation of ThermoScan IP is finished.

To use ThermoScan IP, plug the dongle in one of the USB port of your computer. If you don't plug it, you will remain in demo version.



Then, click the ThermoScan IP icon on your desktop.



2 Installation of your Sensor Net Connect and Sensors

Your temperature monitoring system is delivered with the following contents:

- 1 Sensor Net connect
- 1 power adapter
- 1 to 3 temperature sensors
- 1 Installation CD ROM

2.1 Connection of the Sensor Net Connect

- Connect the Sensor Net Connect on a power socket, using the micro USB 5V power adapter
- Connect the Sensors on the RJ12 ports
- Connect the Sensor Net Connect on your network using an CAT 5 or CAT 6 Ethernet RJ45 cable
- If you use a Wi-Fi Sensor Net Connect WIFI, go to section 2.1.1 otherwise go to section 2.1.2

2.1.1 If you use a Wi-Fi Sensor Net Connect

• Use a Micro USB to USB 1 cable. Plug the micro USB connector to the Sensor Net Connect and the A connector to your PC. The Sensor Net connect will behave like an external drive.



• Double click on the icon. It will open a CONFIG.TXT file where you will see all default setting.

CONFIG.TXT - Bloc-no	tes	
Fichier Edition Forma	it Affichage ? 😽	
DHCP_Enabled: IP_Address: Gateway_Address: Subnet_Mask: Primary_DNS: Secondary_DNS: HTTP_Port: SSID: Net_Type: Security_Type: Security_Key:	TRUE (TRUE or 10.63.63.195 10.63.63.254 255.255.255.0 10.63.63.1 194.2.0.20 80 WIFI-proges Infrastructure WPA_Key	FALSE)

- Enter the correct IP settings(if needed)
- Enter the Wi-Fi settings
 - o SSID (Name of the Wi-Fi Network)
 - Net_Type : type Infrastructure
 - Security Type : See below
 - Security_Key : Password of your Wi-Fi Network
- Save the file. Now, your Sensor Net Connect is ready to be placed on your network

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.

2.1.2 If you use Dynamic IP Address

Just plug the Sensor Net Connect on a network jack and go to section 3

2.1.3 If you use Static IP addresses

• Use a Micro USB to USB 1 cable. Plug the micro USB connector to the Sensor Net Connect and the A connector to your PC. The Sensor Net connect will behave like an external drive.



- Double click on the icon. It will open a CONFIG.TXT file where you will see all default setting.
- Enter the correct IP settings

CONFIG.TXT - Bloc-no	tes 💦		x
<u>Fichier</u> <u>Edition</u> Forma	it <u>A</u> ffichage <u>?</u>		
DHCP_Enabled: IP_Address: Gateway_Address: Subnet_Mask: Primary_DNS: Secondary_DNS: HTTP_Port:	FALSE (TRUE or 192.168.1.150 192.168.1.254 255.255.255.0 192.168.1.1 194.2.0.20 80	FALSE)	< III +
4			•

• Launch the Software using the icon on your desktop



3 Setup ThermoScan IP

3.1 If you use dynamic IP addresses

If you use dynamic IP addresses, use the menu « Communication mode » and select the option « Auto-detect ».

	File	Identification	Language	Communication Mode	
	Sensor M Equipme	let Connect ents	Equipmer	Auto-Detection Fixed address Email	
Click « New » New Click « New Click »					
<u> </u>	Thermosca	n IP			×
Ser	nsor Net Conne	ect found on the net(vork:		
	IP Ad	idress 🔍	Name	🔍 🛛 MAC Address 🔍 🕇	j
10	.63.63.212		EDSOWSERVER	00-50-C2-91-B0-AE	
10	.63.63.217		"NETBios": "ED	"MAC": "00-50-C2-91-B2-EE	
	Sensor Net or Name : IP-Address: MAC-Address		 Ca 	ancel 🕅	

The list of the Sensor Net Connect found on the network is now displayed. Click the line of the Sensor Net connect you want to set and enter a name (example: Laboratory).

IP Ad	dress	9	Name	Add 🕹 🖉	ress 🔍
.63.63.212		EDSOW	/SERVER	00-50-C2-91-B	0-AE
.63.63.217		{"NETB	ios": "ED	"MAC": "00-50-	C2-91-B2-EE
Sensor Net or	moot				
Sensor Net co	onnect				<u>[</u>
Sensor Net co Name :	onnect Laboratory				
Sensor Net co Name : IP Address:	onnect Laboratory	2			
Sensor Net co Name : IP Address:	Dinnect Laboratory 10.63.63.21	2			



3.2 If you use Static IP addresses

If you use fixed IP addresses, use the menu « Communication Mode » and select the option « Fixed address ».



- Click « New ».
- Enter the name and the IP address of the Sensor Net Connect.
- Click « OK ». and go to section 3.31 Set Equipement

3.3 Search sensors

When the server added, a message asks you if you want to search the sensors.

Thermosc	an IP	\mathbf{X}
2	Server added Do you want to update the SensorNetConnect status and search for the sensors Yes <u>No</u>	8?

Click « yes » to search the sensors.

Thermoso	an IP 🛛 🛛 🔀
?	The sensor with the address 109F59D501080055 has been found on the network Do you want to add it?
	Yes No

Once the sensor is detected, the system indicates its serial number and asks if you want to want to register the sensor.

Click «yes » to add it.

Sensors list :						
Equipment Name 🔍	, Serial Number 🔍	Samp, Rate 🔍	, Temperature 🔍	, Date Time 🔍	Status	۹ 🖬
N/A	D90008021F081410	00:00	24 °C	15/02/2011 10:04	ок	~
N/A	950008021F0B0710	00:00	28 °C	15/02/2011 10:04	ок	
SondeXYZ	1080F51E02080071	00:01	20.5 °C	25/02/2011 15:44	Impossible to contact	
N/A	109F59D501080055	00:00	21 °C	02/03/2011 14:19	ок	
N/A	7E5420000010004A	00:00	21.135 °C	02/03/2011 14:19	ок	

The sensors are shown in the sensors list.

3.4 Set Equipements

Click twice the line of the sensor you want to set.



- Enter the name of the sensor.	L E	quipment settings	
- Sample rate: Enter the sample rate (the sensor will log the	Equi	ipment Name	Fridge
temperature with this rate)	Sen	sor Serial number	28610C8E060000D6 🔹
- High alarm Low alarm: There are the maximum and	Sam	ple Rate (HH:MM)	00:01
- Ingrialatil, Low alatil. There are the maximum and	High	n Alarm (°C)	8.0
Tana ariantian. The classes tanggariantian angles to sense to	Low	Alam(°C)	2.0
- remporization: The alarms temporization enables to generate	High		0.0
alarms only after certain duration.	Low		0.0
 Alarm mode: Select Email and / or Pop Up. Emails must be 	Tem	porisation (HH:MM)	04:5
separated by ";"	Rec	all (HH:MM)	01:
	Alam	m mode	✓ Pop up
	Emp	il address	
	Cha		
		ОК 🗸	Cancel 🔀

3.5 Email configuration

You need to configure Thermoscan IP to let it sent emails.

- Go to « Communication Mode » and « Email » and set the parameters
- Ask your administrator for details
 - Send a test Email to check your settings
 - Click« OK ».





4 View Data

Click the tab « Equipments » on the left of the main screen.

I Thermoscan IP												Thermoscan IP						
File Identification L	File Identification Language Communication Mode ?																	
Sensor Net Connect						AC	K											
Equipments	Name 🔍	Serial N° 🔍	Samp. Rate 🔍	, Hi Alarm 🍳	Lo Alarm 🍳	Tempo. 🍳	Temperature 🍳	, Date Time 🤇	🔪 Status 🕇		New							
In this screen you can	fridgeA	950008021F0B0710	00:01	26 °C	18 °C	00:00	29 °C	02/03/2011 14:53	3 High Alarm 👘 🖉									
associate the equipments	SondeXYZ	1080F51E02080071	00:01	23 °C	17 °C	00:00	20.5 °C	25/02/2011 15:44	4 Not detected		Modify	0						
to the sensors.	Fridge7	D90008021F081410	00:01	20 °C	18 °C	00:00	22 °C	02/03/2011 14:53	3 High Alarm		Delete	-						
											Graph							

The table shows the basic settings, the date and the value of the last measurement and the status (OK, High Alarm, and Low Alarm, not detected).

The line is displayed in red if the equipment is in High Alarm, in blue if in Low Alarm and in yellow if the sensor is not detected.

Click on one of the lines to see details.

By default, you can see data of the last 24 hours. If you modify the period, click "OK" to update the information.

🕴 Equipment : frideeA / Serial number : 950008021F080710							
• Edenbur	ent integen i se						
Equipment se	ettings						
Sample Ra	ite : 00:01	High Alarm : 26	°C	Low A	arm : 18 °C	Temporization : 00:00	
⊢ Time selecti	ion						
1 1110 001000							
		 The last 7 days 	From 02/03/20	11 💌 at 00:00 to	02/03/2011 💌 at 23:59	OK 🔮	
🔲 List	t of Values	List of Alarms 🛛 💋 Graph					
~	DateTime	♥ Value	1				
02/03	/2011 15:35:05	29,00	^	Excel 🔀			
02/03	/2011 15:34:29	29,00		Duint 🏊			
02/03	/2011 15:33:23	29,00		Print 🤤			
02/03	/2011 15:32:17	29,00					
02/03	/2011 15:31:11	29,00					
02/03	/2011 15:30:05	29,00					
02/03	/2011 15:29:29	29,00					
02/03	/2011 15:28:23	29,00					
02/03	/2011 15:27:17	29,00					
02/03	/2011 15:26:11	29,00		\mathbb{R}			
02/03.	/2011 15:25:05	29.00		Ŷ			

In this window, you can see three different tabs.

4.1 List of temperatures

This tab shows the date/time and the temperatures logged.

You can export these data to an Excel file by clicking the button "Excel"; you can also print these data by clicking "Print". A print preview is displayed, with this print preview

You can print directly, export with a Word format, with an Excel format, send the data by Email, etc...



Temperatures List						
📄 🖶 🔀 💽 📮 53 %	💌 🗩 🗩 🥬 🛛 🖑 🛛 🖓 🛛 🖓 🖂 🖓 🔛					
👿 🗶 🎨 🔤 🔤 📄 🖉	🔌 📝 🎵 🗔 🎞 🔤 🛛 🚢 🔕					
Find text:	💿 💿 🔲 Whole word 🔲 Comply with the case					
1 Terrent Altract State Terrent Altract Sta	Temperatures List					
	Equipment: fridgeA - The last 7 days					
	DaleTime Temperature					
	02/03/2011 14:44:08 29:00					
	02/08/2011 14:45/04 28,50					
	02/08/0011 14:46(10 28,50					
	02032011 14:4522 2500					
	02/08/2011 14:49:28 29:00					
2	02/08/2011 14:5004 25:00					
Fasters Inter- Technif day.	02/03/2011 14:51:10 29:00					
	02/08/2011 14:5216 29:00					
	02/08/2011 14:53:22 29,00					
	02/03/2011 14/5/628 229/0					

4.2 List of alarms

This tab shows the periods of time when the temperatures were out of the thresholds, with the start and end date, the duration and the average temperature.

Equipment :fridgeA / Serial number :950008021F0B0710										
Equipment settings										
Sample Rate : 00:01	High Alarm : 26 °C Low Alarm : 18 °C									
Time selection										
	🖌 The last	7 days From	m 02/03/2011	▼ at 00:00 to	02/03/2011 💌 at 2					
List of Values	List of Alarms	🧭 Graph								
High Alarm										
Start Date	Time	End date	Time	Duration	Av. Value					
02/03/2011	14:44:28	02/03/2011	15:35:05	0 day(s)00:50:37	28.92					



You can also print the list of alarms.

4.3 Graph

This tab enables to see the information in a graph

quen	ce de M	esure : Ol	-):01			Alarme H	laute : 23 °C				Alarme	Basse : 17	°C			т	emporisa	tion : 00:1	00		
ction	de la pé	riode de	temps—											_							
				✓ Le:	s 7 dernier	s jours	Du	24/02	2/2011	▼ à 0):00 au	24/02/	2011 🔻	à 23	:59	ОК	S				
t I	.iste Val	eurs	ΠL	.iste des /	Alarmes	2	Courbe														
																				Imprin	Π
39 -																				/	2
38 -																					-
37																				÷-/	-
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35 -								į	- ÷												_
34 -		ļ						į													_
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32 -		į						į												4	_
31								<u>.</u>			1								<u>.</u>	1	
30.2								1			1								1	1	
20								1													
20		1	1		1	1		-				1		1					1	1	
20								1	1		1										
26 -										1											
20 -																			1		
25 -			1					}				····							1		
24 -			1					1											1		
23 -		1	1	1	1		1	1	1	1	1		1	1					1	1	1
22 -			1					1				·····							trrrf.	·	-
21 -			1						- 1										:f		-
20 -		1	1	-				1	1	1	1	-		-	-						-
19 -		÷	+						- +			· · · · · · · · · ·									-
18 -		÷							-+			· · · · · · · · · · · · · · · · · · ·									-
17 -			1					1	1				i						1	1	

You can zoom on the graph. See instructions below

P How to Zoom on the Graph?	
Zoom	
To zoom, draw a square clockwise using the left button of your mouse . You can zoom	several time like this
Nove the graph feit, light, up and down with the light button of the mouse.	
Selection of the area	Result
20160 20160	34 39 30 30 30 30 30 30 30 30 30 30
<u>Unzoom</u> To go back to the original view, draw a square in the other side.	
	ose

You can also print the graph.



5 Process Control

You can control production process with multiple alarms conditions

Click the "Process" button and set a new process. Enter its details and chose the appropriate alarm conditions

Thermoscan IP					_	
Name	Sterilisation Test	Send Alarms by:				
Start Date	23/09/2015 15:07	🖌 Email 🔽 Pop-Up				
End Date (Optional)		Recipients emails (separated by ;)				
Equipment	Sonde autoclave	me@me.com;you@you.com				
Comment		Notification sent if:				
		✓ After	120 mins			
		The temperature is below	0.0 ℃			
		The temperature is above	0.0 °C			
		The temperature is below	134.0 °C	for	0 mins	
		The temperature is above	137.0 °C	for	0 mins	
		The temperature fails of	0.0 °C	over the	0	last measures
		The temperature of	134.0 °C	is not kept f	for	18 mins

Once the process has stated, you can view data in real time and get alarms depending of conditions you have sent.

You can then save this data, print it an export to Excel



6 Various

6.1 Purge Data

If you want to backup data on another PC, you can use purge data and later restore it.

Follow the instruction from the Maintenance menu.

6.2 Close Thermoscan IP

You can click the icon 🔲 to put the application in the system tray. The icon 🕻 appears near the PC clock. You can click the icon again to see ThermoScan IP.

A password is requested to close Thermoscan IP. The password is thermoscanip

If you stop ThermoScan IP, the log will continue and the alarm emails will still be sent. But you won't get any Pop-ups any more.

You can activate a password when opening the software. This password will be also requested to activate the application when it is in the system tray.

🕴 🚶 Thei	rmoscan IP				
File	Identification	Language	Communication	Maintenance	?
Sensor	Password to a	activate the sol	ftware service		

The password is thermoscanip

