



TH Monitor

User Manual

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1.3 Sensors

iButtonLink has developed a variety of MultiSensors to be used in conjunction with the LinkTH. The following types of MultiSensors are available:

- MS-T for temperature only
- MS-TH for temperature and relative humidity
- MS-TV for temperature and voltage (0 to 10 volts DC)
- MS-TL for temperature and light
- MS-TC for temperature and current (0 to 20 Amps AC)
- MS-TW for temperature and water
- MS-THW for temperature, relative humidity and water



The LinkTH also supports the DS18S20, DS1920 and DS18B20 temperature sensors produced by Dallas Semiconductor/MAXIM.

1.4 Power Injector

The LinkTH is able to support up to 10 sensors by using power from the serial port of the PC.

For systems that need to support larger number of sensors, the MS-PWR power injector is recommended to maintain the supply of regulated power. The MS-PWR uses an external 12 volts DC power source and is connected between the LinkTH and the first sensor.



Note: The MS-PWR must be connected between the LinkTH and the first sensor.

2 Installing TH Monitor

2.1 Minimum Computer Requirements

The minimum computer requirements to effectively use TH Monitor are:

- A Pentium or higher PC with Windows NT4 Service Pack 4 with a spare serial port. A USB to serial adaptor may also be used.
- A monitor with 800 x 600 resolution and a Super VGA graphics adaptor.
- 32 MB of RAM.
- 100 MB of spare hard drive space.
- Long term data logging may require up to 2 GB of disk space.

Note: Support is not provided for users of Windows 95, 98, ME and Vista.

2.2 Minimum Hardware Requirements

To use TH Monitor, the following items are required:

- A LinkTH smart one wire interface.
- One or more sensors.
- A suitable PC as per minimum computer requirements stated above.

2.3 Installation process

To install TH Monitor, you must be logged in as Administrator or have administrator privileges attached to your user account.

If you already have a version of TH Monitor installed on the computer, it is strongly recommended that you uninstall that version and reboot the computer before installing the new version. Please refer to Section 4.2 – Uninstalling TH Monitor.

To successfully install TH Monitor, the order of the installation steps is as follows:

1. Install the software
2. Plug in the LinkTH
3. Start TH Monitor

2.3.1 Install Software

Select and run THmonSetup.exe.

You will be presented with the InstallShield Wizard.



Click on the Next button to continue

Follow the InstallShield Wizard prompts and you will be guided through the remaining installation steps.

2.3.2 Plug in the LinkTH

Plug the LinkTH into a serial port of the computer.

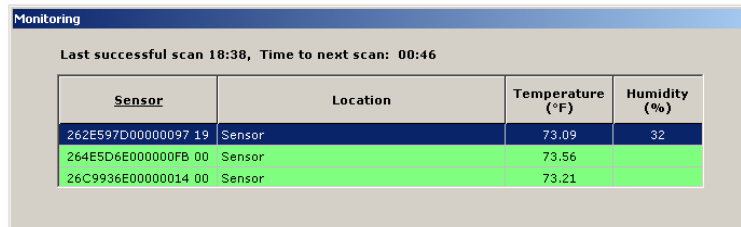
Note: The LinkTH must be plugged in for the TH Monitor to perform the data collection service.

2.3.3 Start TH Monitor

- Double click on the TH Monitor icon presented on the screen.



You are now able to view the main screen of TH Monitor.

A screenshot of the TH Monitor application's 'Monitoring' window. The window title is 'Monitoring'. Below the title bar, it displays 'Last successful scan 18:38, Time to next scan: 00:46'. Below this is a table with four columns: 'Sensor', 'Location', 'Temperature (°F)', and 'Humidity (%)'. The table contains three rows of data, each with a green background.

Sensor	Location	Temperature (°F)	Humidity (%)
262E597D00000097 19	Sensor	73.09	32
264E5D6E000000FB 00	Sensor	73.56	
26C9936E00000014 00	Sensor	73.21	

You have now completed all the steps to install TH Monitor

Note: Data will be collected only when the TH Monitor application is running, either minimized or with the application window visible.

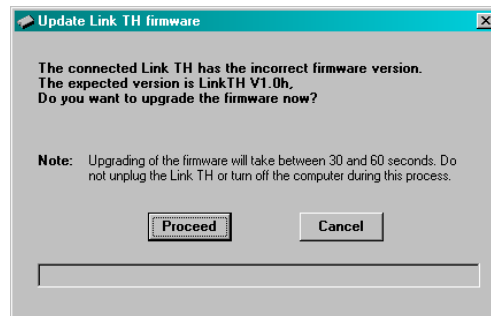
2.4 Update LinkTH firmware

When TH Monitor starts, it checks the firmware version of the connected LinkTH. If the version is lower than required by TH Monitor, the Update Firmware form will be displayed:

Click Proceed to update the firmware.

TH Monitor will copy the new firmware to the flash memory of the LinkTH.

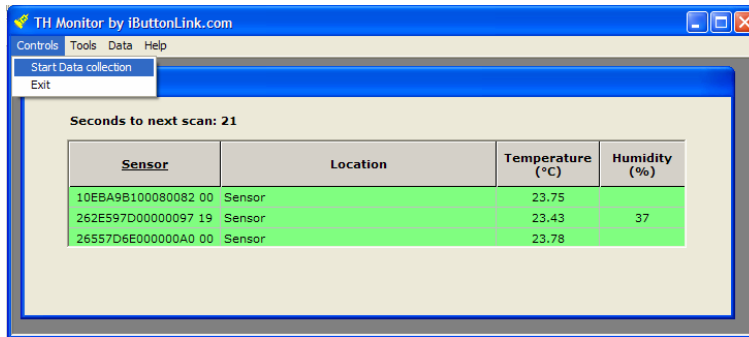
The update process will take up to 60 seconds.



Note: Ensure that the computer is not shut down or powered off until the process is completed. Interruption of the process will corrupt the LinkTH.

3 Running TH Monitor

3.1 Starting the data collection function



If the port configuration is correct and the LinkTH is detected then the data collection window will open automatically. If system configuration is required then the data collection function will need to be started manually. To start data collection, click Controls then Start Data Collection.

When the data collection function is running the sensors will be scanned every minute. The grid display shows data from the last scan.

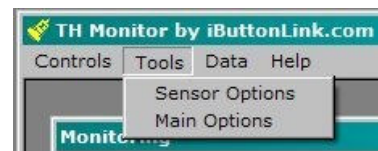
- Sensors with readings inside their limits will appear as green (or another selected color) lines.
- Sensors outside their limits will appear at the top of the list in red (or another selected color).
- The time counter counts down to the next scan.

3.2 Configure Options

TH Monitor enables users to configure options to suit their requirements.

3.2.1 Main Options

From the top menu, select: Tools > Main Options



The Main Options form will be presented with three tabs; namely: General, Logging and display and Alarm options:

The screenshot shows a dialog box titled "Main Options" with three tabs: "General", "Logging and display", and "Alarm options". The "General" tab is selected. It contains the following fields and controls:

- Company or location:** Text input field containing "TH Monitor System".
- Default sensor location:** Text input field containing "Sensor".
- Temperature scale:** Radio buttons for "Celsius" and "Fahrenheit", with "Fahrenheit" selected.
- Date Format:** Radio buttons for "Short Date" and "Custom", with "Short Date" selected. A text input field to the right contains "Short Date".
- Time Format:** Radio buttons for "Short Time" and "Custom", with "Short Time" selected. A text input field to the right contains "Short Time".
- Test time and date formats:** A "Test" button and an empty text input field.
- Automatically scan COM ports to find Link TH:** A checked checkbox.
- COM port number for Link TH:** A text input field containing "1", a "Test" button, and an empty text input field.

At the bottom of the dialog are three buttons: "OK", "Cancel", and "Apply".

To capture changes, click on the Apply button.

To capture changes and go back to the main screen, click on the OK button.

General Options Tab

The General tab contains user and regional preference settings.

Company or location

The text entered in this field will appear on reports, emails and graphs generated by TH Monitor.

Default sensor location

Enter the default location to be assigned to new sensors. Sensor locations may be changed individually after they appear on the system.

Temperature scale

This is generally set according to your region. Click on the appropriate scale.

Time Format

Custom time format may be set by typing the format definition into the fields.

The options for time format definition are as follows:

m The minute is shown as a number, i.e., 7 or 17

mm The minute is shown as a two digit number, i.e., 07 or 17

H The hour is shown as a number, i.e., 2 or 12

HH The hour is shown as a two digit number, i.e., 02 or 12

AMPM after the time format makes the time appear in 12 hour format followed by AM or PM

Date Format

Custom date format may be set by typing the format definition into the fields.

The options for date format definition are as follows:

- d The day of the month is shown as a number, i.e., 7 or 17
- dd The day is shown as a two digit number, i.e., 07 or 17.
- ddd The day is shown as a three letter abbreviation, i.e., Thu
- dddd The day is shown in full, i.e., Thursday
- M The month is shown as a number, i.e., 8 or 12
- MM The month is shown as a two digit number, i.e., 08 or 12
- MMM The month is shown as a three letter abbreviation, i.e., Aug
- MMMM The month is shown in full, i.e., August
- yy The year is shown as a two digit number, i.e., 03
- yyyy The year is shown as a four digit number, i.e., 2003

After entering your preferred date and time format, click the Test button. The current date will appear in the test window according your selected format.

Automatically scan COM port

By default, TH monitor will attempt to detect the LinkTH by scanning available COM ports.

Uncheck this box if scanning of COM ports is not required.

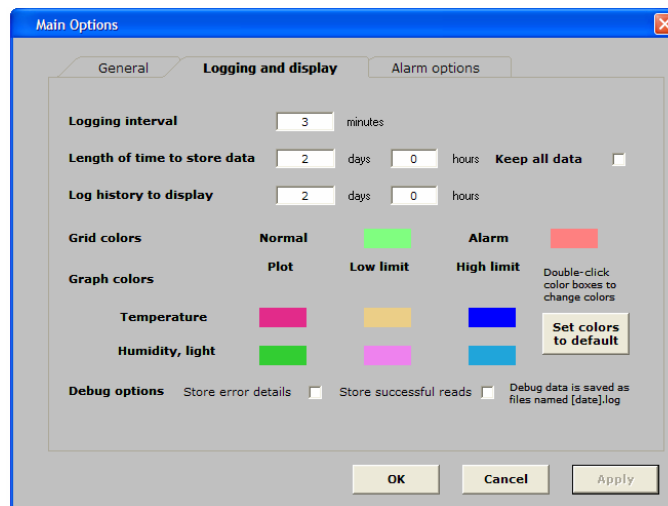
COM port number for LinkTH

Enter the number of the port connected to the LinkTH.

Click on the Test button to verify that the LinkTH is connected and is operating properly.

Logging and Display Tab

This tab sets logging parameters, options for color display of the grid on the main screen and on graphs and a debug option for trouble shooting.



Logging interval

Enter a scanning interval in minutes and seconds.

The service will scan all connected sensors and save the readings in the database, based on the scanning interval.

The minimum scanning interval is approximately 10 seconds and is dependant upon the number and type of sensors in use.

Each MultiSensor on the bus requires approximately 0.5 second to scan.

Each DS18S20, DS18B20 or DS1920 requires approximately 1.2 seconds to scan.

If the interval entered is lower than the actual scan time, the system will scan the bus at the actual scan time plus 10 seconds.

Length of time to store data

Enter the length of time that data is required to be stored.

Data will be erased after the selected **Length of time to store data** period has elapsed.

Keep all data

If the **Keep all data** check box is checked, all data will be preserved. TH Monitor automatically compacts and repairs the database weekly to maintain integrity.

Important: If **Keep all data** is checked the database will continue to grow and should be monitored. If the database file exceeds 1,000 MB, manually purge the database using Access (2000 or higher) or replace with a fresh database.

Note: **TH Monitor does not back up the database.** If the data is critical it should be backed up regularly using an external process.

Log history to display

The period, in days and hours, that the graphs and log reports are to display.

Grid colors/

Colors for the display grid and graphs may be selected by:

Graph colors/

Double-clicking on the color boxes OR click on the **Set colors to default** button.

Temperature

Humidity, light

Debug options

If either of the Debug Options boxes are checked, the service will create a daily log file in the application directory.

If **Store error details** is checked, the service will record service start and stop events, mail events as well as system errors.

If **Store successful reads** is checked, the raw data from the LinkTH will be saved each time the bus is scanned.

Alarm options tab

This tab holds the parameters for setting alarm limits and alarm messaging via email.

The screenshot shows the 'Main Options' dialog box with the 'Alarm options' tab selected. The dialog has three tabs: 'General', 'Logging and display', and 'Alarm options'. The 'Alarm options' tab contains the following settings:

- Default alarm limits:** A table with columns for 'Low' and 'High' for 'Temperature' and 'Humidity or light'.

	Low	High
Temperature	15	30
Humidity or light	20	80
- Send mail on alarm:** Two checkboxes for 'Low' and 'High', both checked. A 'Test email' button is to the right.
- Send mail on water alarms:** An unchecked checkbox.
- Send mail on alarm or sensor failure:** A checked checkbox.
- Send mail on return to normal:** A checked checkbox.
- Time in alarm or return to normal before sending email (minutes):** A text box containing '4'.
- To address for email notifications:** 'alarm@thermid.com'
- From address for email notifications:** 'LoggingPC@thermid.com'
- Subject line for alarm messages:** 'Alarm'
- Subject line for return to normal:** 'Return to normal'
- Mail (SMTP) server:** 'mail.bigpond.com', Port: '25', 'Add location to subject' checkbox is checked.
- Authentication required?:** An unchecked checkbox, with 'User name' and 'Password' text boxes.

Buttons at the bottom: 'OK', 'Cancel', and 'Apply'.

Default alarm limits

Enter the default **High** and **Low** limits to be assigned to new sensors. Sensor limits may be changed individually after they appear on the system.

Send mail on alarm

By checking the **High** and **Low** limits for each sensor, the system will attempt to send mail when readings are higher and/or lower than the set alarm limits.

For example: If notification is only required for high temperature events, check the **High** box only and leave the **Low** box unchecked.

Note: The computer must be connected to the internet to enable email alarms.

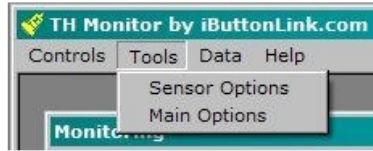
Send mail on water alarms / alarm or sensor failure	Check these boxes as required.
Send mail on return to normal	Check this box if you wish the system to also send mail when the readings return to within their limits.
Time in alarm before sending email	Define the time in minutes that a sensor needs to remain outside the alarm limits before a notification is sent. This provides a means of sending notification only for serious or persistent events and disregarding less serious spikes. Set to 1 if all alarms must be notified.
Reset alarms	Clicking this button will cause any sensor records currently in an alarm state to be returned to normal. Subsequently, sensors will be returned to the alarm state as per the system configuration.
Test email	Click on this button to send a test email, using the email settings entered. If the test email fails due to a standard SMTP failure event, the error details will be saved in the log file.
To / From addresses for email notifications	If mail notification is required, enter the To (recipient) and From email addresses.
Subject line for alarm messages	Enter the subject to be used for alarm email messages.
Subject line for return to normal	Enter the subject to be used for email messages notifying that alarms have returned to normal.
Add location to subject	If checked, the Company or location data (from General tab) will be added to the email subject line.
Mail (SMTP) server	Enter the name of the SMTP (outgoing mail) server.
Port	Enter the port for SMTP traffic. The default setting is 25.
Authentication required?	Check this box if the SMTP server requires authentication with user name and password.
User name, Password	Enter the user name and password if Authentication required? is checked.

3.2.2 Sensor Options

The Sensor Options form is where the details of individual sensors are captured.

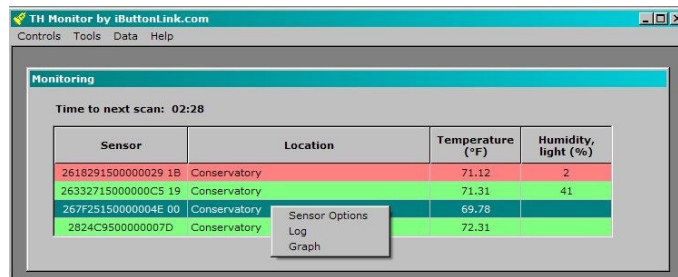
There are two ways to access Sensor Options; namely:

Highlight a sensor entry in the grid, then from the top menu, select: Tools > Sensor Options



OR

Right-click on a sensor entry in the grid and select Sensor Options

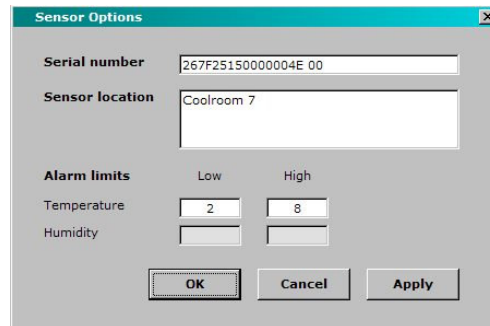


Sensor Options Form

Enter the location and applicable the alarm limits for the sensor.

To capture changes, click on the **Apply** button.

To capture changes and go back to the main screen, click on the **OK** button.

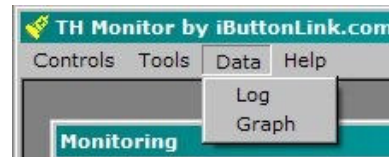


3.3 View Data

TH Monitor offers the functionality to view data from each sensor in log or graph form.

To access these tools,

Highlight a sensor entry in the grid, then from the top menu, select: Data > Log or Graph

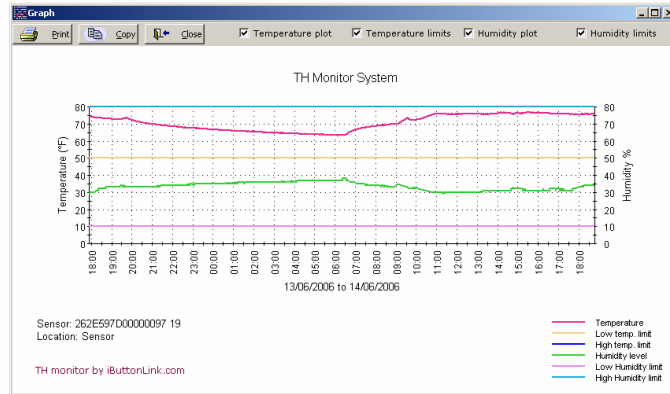


OR

Right-click on a sensor entry in the grid and select Log or Graph

3.3.1 View Data as Graph

Displays a graph for the selected sensor.



Print Click to display the print dialog box.

Copy Click on Copy to copy the graph to the clipboard for pasting as an image into a document.

- Check boxes**
- Temperature plot
 - Temperature limits
 - Secondary (e.g.: humidity) plot
 - Secondary (e.g.: humidity) limits

Use these check boxes to selectively show or hide the temperature plot, secondary plots and alarm limits.

3.3.2 View Data as Log Table

Displays a tabular data log for the selected sensor.

Log

Sensor ID: 262E597D00000097 19 Order: Ascending Descending

Location: Sensor

Start date: 05/06/2006 End date: 14/06/2006

Alarm limits

	Low	High
Temperature	50	80
Humidity	10	80

Load data Export file Close

Date, time	Temperature (F)	Humidity
05/06/2006, 15:15	69.84	42
05/06/2006, 15:16	69.78	42
05/06/2006, 15:16	69.84	42
05/06/2006, 15:17	69.96	42
05/06/2006, 15:17	69.84	42
05/06/2006, 15:17	70	42
05/06/2006, 15:18	70.06	42
05/06/2006, 15:19	70	41
05/06/2006, 15:20	69.78	41
05/06/2006, 15:21	70.12	41
05/06/2006, 15:22	70.18	41

4 Troubleshooting and support

4.1 Troubleshooting the LinkTH

If TH Monitor is unable to detect the LinkTH then it is possible to use a terminal program such as HyperTerminal to troubleshoot the LinkTH and sensors. Please refer to the LinkTH manual for instructions on how to use the LinkTH with a terminal program.

4.2 User support forum

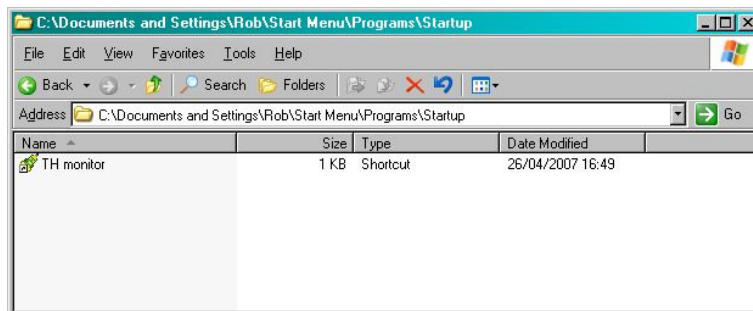
iButtonLink maintains a support forum for users of TH Monitor to exchange information and provide mutual support.

To access the forum, visit the iButtonLink website <http://www.ibuttonlink.com/> and click on the Discussion Board link.

5 Running TH Monitor automatically

5.1 Starting TH Monitor on log-in

To make TH Monitor start automatically upon log-in, place a shortcut to THmon.exe in the Startup folder under Program Files:



If TH Monitor is required to run regardless of the user logged in then place the shortcut in the folder C:\Documents and Settings\All Users\Start Menu\Startup.

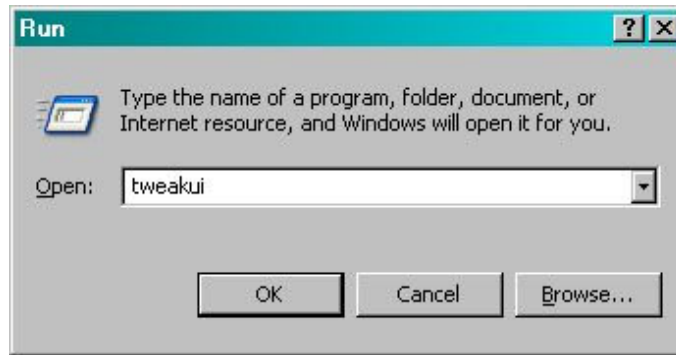
If TH Monitor is only required to run when particular users are logged in, place a shortcut in each C:\Documents and Settings\[user name]\Start Menu\Startup folder.

5.2 Running TH Monitor when the computer starts

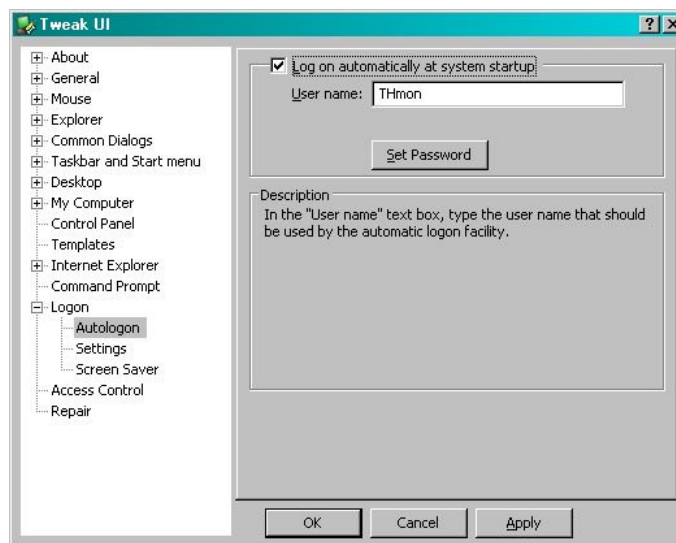
If TH Monitor is required to start up whenever the computer is booted, you must set the computer to log in automatically to a selected user account.

Setting up automatic login requires the use of a program such as TweakUI, which is available as part of the Microsoft PowerToys for Windows XP package. This set of tools is available for download from Microsoft.

To use TweakUI to set up automatic logon, click Start then Run and enter tweakui:



If TweakUI is installed on the computer then TweakUI will open:



Select Logon then Autologon. Enter the user name and password for the account to log on automatically.

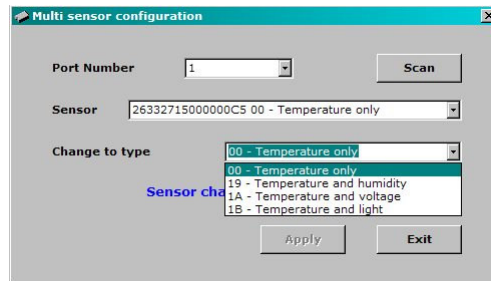
Place a shortcut to TH Monitor in the Startup folder for the selected user account.

6 Configuration of multi-sensors

This software tool is provided to change the identification suffix of multi-sensors so they are recognized by TH Monitor as the correct type. To work correctly with TH Monitor, some sensors (i.e., the TAI8450 temperature and humidity sensor from AAG Electronica) will need to be configured using this tool.

To use the configuration tool, click the Start menu then select Programs > iButtonLink > Sensor Configuration.

The Multi sensor configuration screen will appear.



If the LinkTH is connected to serial port 1, it will scan the available sensors and list them in the **Sensor** drop-down box.

If the LinkTH is connected to a different port, select the correct serial port number and click the **Scan** button. If sensors are added or removed while the program is open, click the **Scan** button to add the new sensors to the list.

To change the type of the selected sensor, select the required type from the **Change to type** box and click **Apply**. A success or failure message will be displayed.

Appendix A TH Monitor License Agreement

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8. Acknowledgment.

BY INSTALLING THIS PACKAGE, THE LICENSEE ACKNOWLEDGES THAT IT HAS READ THIS LICENSE, UNDERSTANDS IT, AND AGREES TO BE BOUND BY ITS TERMS AND CONDITIONS.

Appendix B Example of LinkTH monitoring system

