

USB Edition

TM-STD30

User Guide

User Guide

Thank you for choosing Temperature@lert. The USB Edition monitors the ambient temperature and alerts you via email to protect your highly valuable belongings from unexpected changes in temperature. We hope that you will find our products and services the simplest and most reliable temperature monitoring system available.

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About Temperature@lert

Our device helps to alert you when slight changes in the environment are detected. We believe in the simplicity of our device -- in design, set-up, and operation.

We have a long history of designing devices to measure environmental changes. Our line of monitoring devices takes environmental monitoring to the next level by allowing for customized timing of monitoring efforts and customized methods of alert notifications.

Hardware Guide

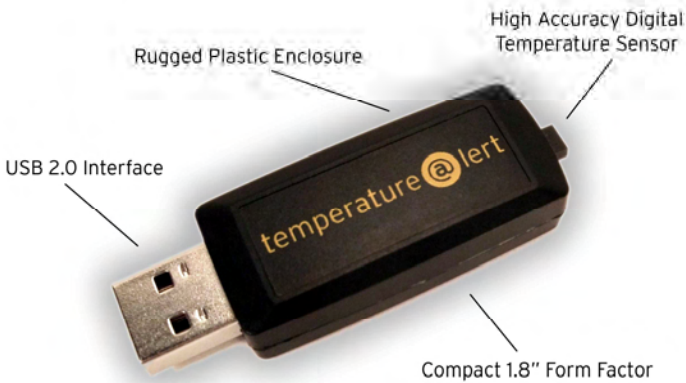
System Requirements

- 32 or 64-bit version of: Microsoft Windows XP, 2000, 2003 Server, 2008 Server, or later.
- CD-ROM Drive (or download the software from the web)
- USB 2.0 Port
- 10 MB Hard Drive Free Space
- Pentium III or higher
- 128 MB RAM
- Internet Access for Email Alerts
- Access to an Email Server (SMTP)
- Microsoft .Net Framework Version 3.5.

USB Edition at a Glance

The Temperature@lert USB Edition monitors the ambient air temperature at its location and alerts you via email when it rises or falls outside the acceptable range that you have specified. The temperature sensor is accurate within $\pm .5^{\circ}\text{C}$ and can report temperatures from -40°F to $+200^{\circ}\text{F}$.

Because this Temperature@lert unit is powered via the USB port on a computer, it never requires new batteries or an AC power adaptor.



The Temperature@lert USB Edition includes the following items:

- USB Temperature Sensor
- Temperature@lert USB Edition on CD-ROM
- Quick Start Guide
- Electronic Help Guide
- 1 Year of Support and Software Updates
- 1 Year Warranty on Hardware
- 30-day Money Back Guarantee



If you are missing any of these items, please see the [troubleshooting and support section](#).

USB Edition Installation

Software Installation

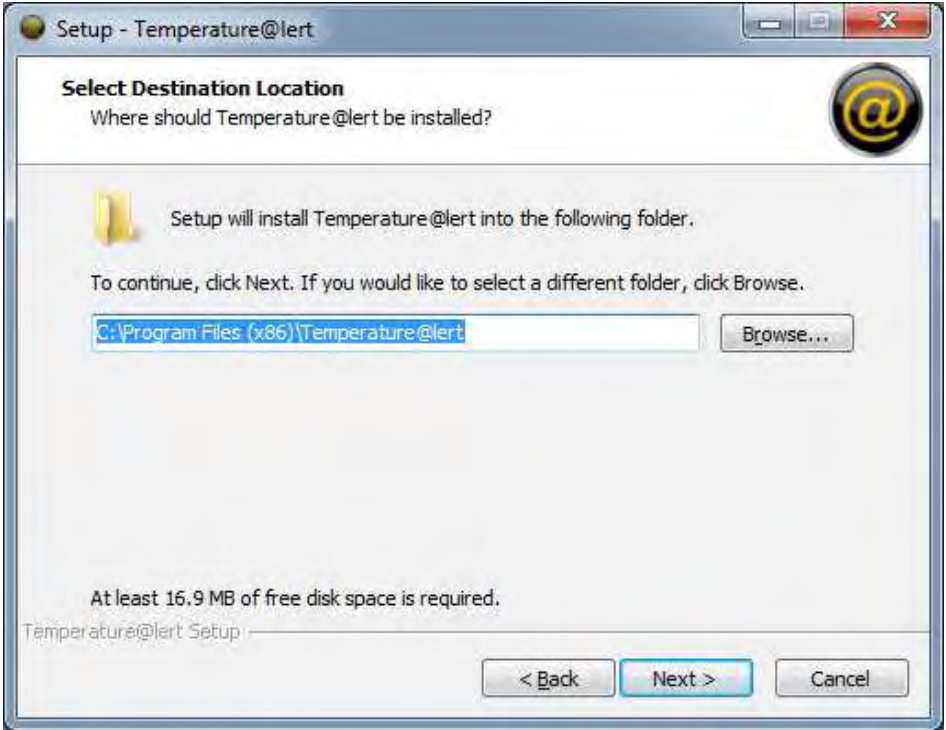
- Insert the Temperature@lert CD-ROM into the CD-ROM drive on your computer.
- The installation program will automatically start. If for some reason it does not, simply browse the contents of your CD-ROM drive and double-click on “setup.exe”. Click "Run" or "Yes" if prompted.
- Follow the wizard prompts to complete the software installation:



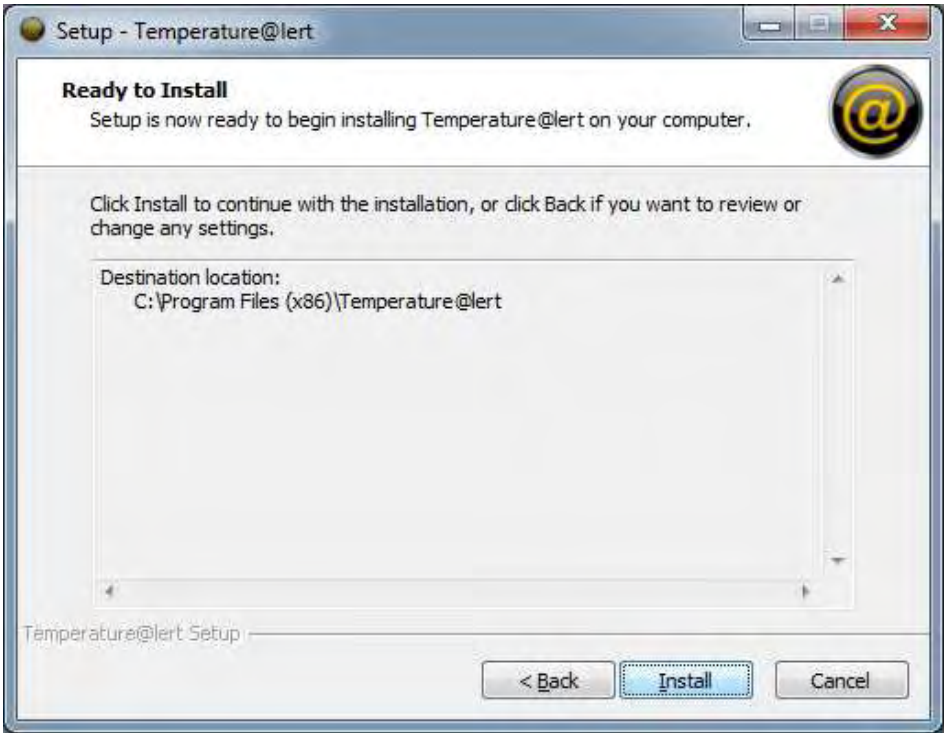
- Follow the wizard Read the license agreement and click accept if you accept the agreement:



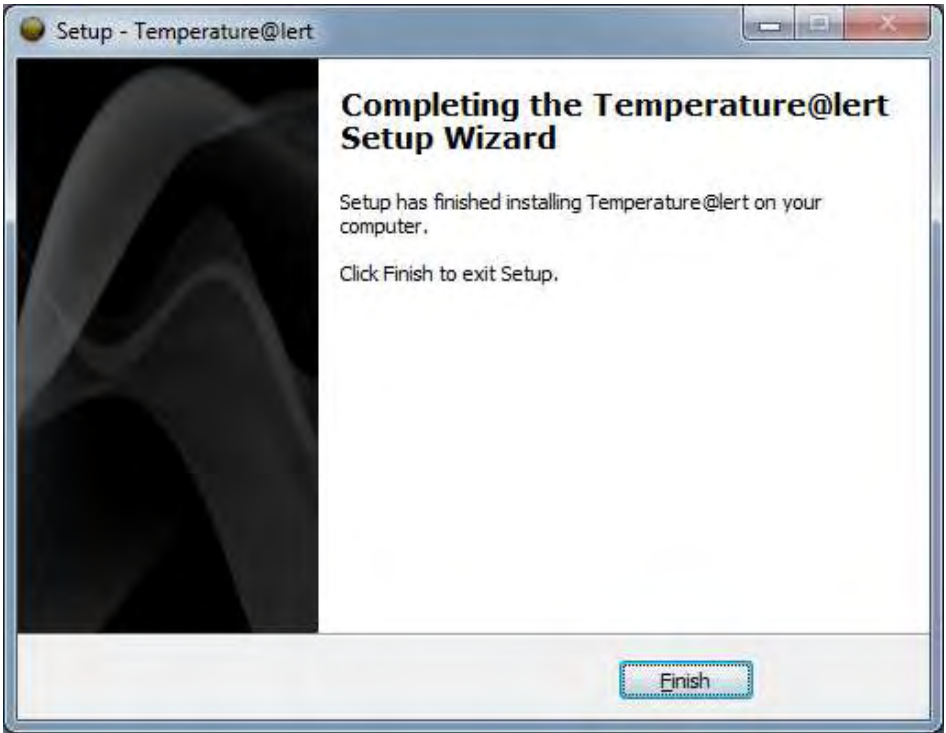
- Follow the wizard Choose the installation folder (the default will be best for most typical installations) and click next:



- Follow the wizard Click install to complete setup:



- Follow the wizard Click finish to close the installer:



Hardware Installation

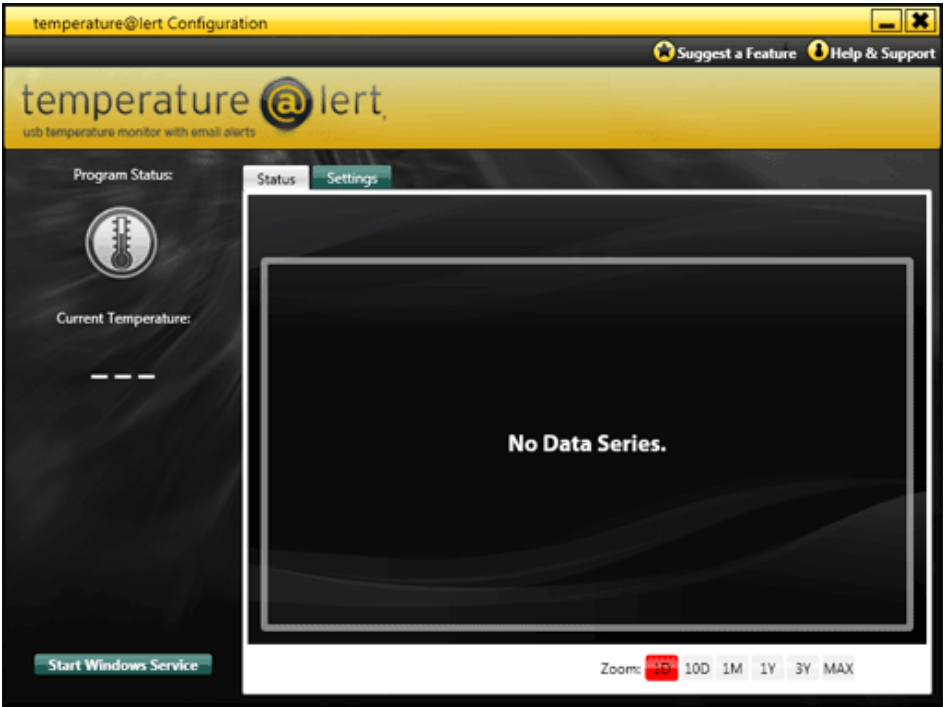
Connect the Temperature@lert USB sensor to an available USB port on your computer. For placement away from your computer, you can use any standard USB extension cable (not included). Windows will automatically find the drivers and install them. If Windows is unable to locate the drivers automatically, you can perform the driver installation manually:

- When the “Add New Hardware Wizard” appears, do not connect with Windows Update to search for software.
- Instead, click “Next” and select “Install from a list or specific location.”
- Then click “Next” again and select “Search for the best ...” and check “Include this location.”
- Enter your computer's CD-ROM drive for that specified location and click “Next”.
- Repeat these same steps to install the second device driver.

USB Edition Configuration

In order to launch the Configuration Console:

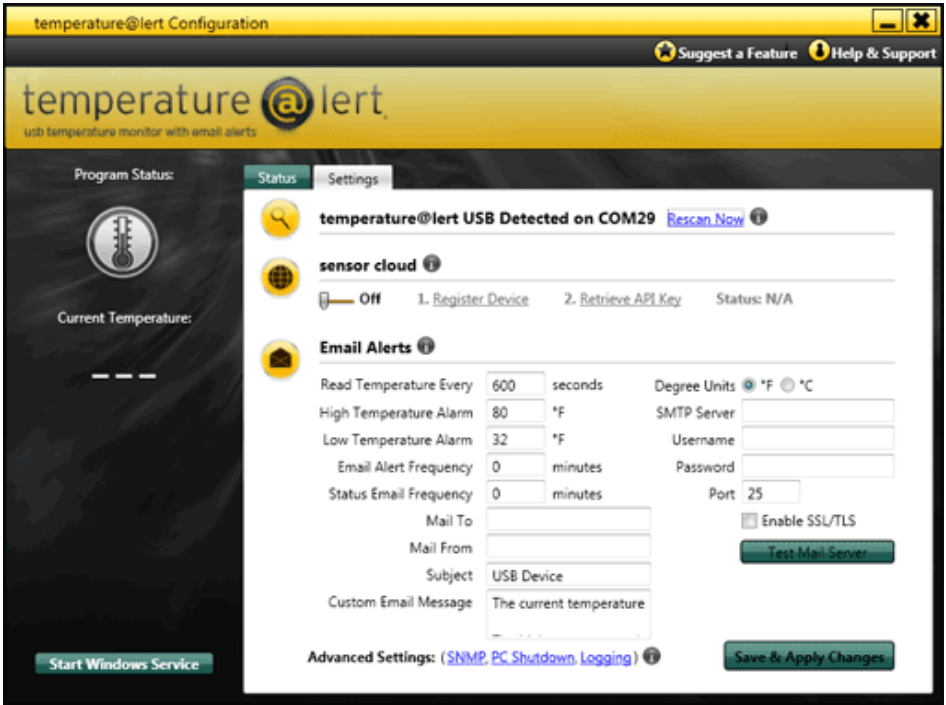
- From your Desktop, double click the Temperature@lert icon.
- Click "Yes" if prompted.
- The following screen will appear:



➤ Click the settings tab and the following screen will appear:

The screenshot shows the 'temperature@lert Configuration' web interface. The top navigation bar includes 'temperature@lert Configuration', 'Suggest a Feature', and 'Help & Support'. The main header features the 'temperature@lert' logo and the tagline 'usb temperature monitor with email alerts'. On the left, a 'Program Status' sidebar shows a thermometer icon and a 'Current Temperature:' field with dashes. The main content area has two tabs: 'Status' and 'Settings', with 'Settings' selected. The 'Settings' page is divided into three sections: 1. 'No temperature@lert USB Devices Found' with a 'Rescan Now' button. 2. 'sensor cloud' with a toggle set to 'Off', steps '1. Register Device' and '2. Retrieve API Key', and a status of 'N/A'. 3. 'Email Alerts' with various configuration fields: 'Read Temperature Every' (600 seconds), 'High Temperature Alarm' (80 °F), 'Low Temperature Alarm' (32 °F), 'Email Alert Frequency' (0 minutes), and 'Status Email Frequency' (0 minutes). On the right, 'Degree Units' are set to °F, and 'SMTP Server' fields for 'SMTP Server', 'Username', 'Password', and 'Port' (25) are present. There is an 'Enable SSL/TLS' checkbox and a 'Test Mail Server' button. At the bottom, there are 'Advanced Settings' links for 'SNMP', 'PC Shutdown', and 'Logging', and a 'Save & Apply Changes' button. A 'Start Windows Service' button is located in the bottom left corner of the main content area.

- Click Rescan Now.
- The USB device will be detected on a COM port (your actual COM port number may vary)
- If the device is not detected, skip to the Troubleshooting & Support section at the end of this document.



Configuring Sensor Cloud (*Optional*)

Sensor Cloud is an **optional** add-on service that provides the following additional features:

- Online viewing of temperature logs at temperaturealert.com
- Online configuration of alert settings at temperatureport.com
- SMS/Text message alerts
- Telephone call alerts

- Multiple temperature thresholds
- Missed report alerts indicate if temperature readings are no longer being recorded.

To learn more, visit temperaturealert.com.

Set Sensor Cloud to the off position if you do not wish to sign up for sensor cloud and skip to the Configuring Email section.

Set Sensor Cloud to the on position if you wish to sign up for an account. Once you have an account, click Register Device. Enter the username and password for your account and click OK. Next, click retrieve API key. The status message should change to green and say ready. Click save and apply to start the temperature monitoring. Log into your Sensor Cloud account at temperaturealert.com to view temperature readings and change alert settings.

Configuring Email

- Contact your email provider for your outbound email server (SMTP server). If you do not have an SMTP server, please email support@temperaturealert.com and we can provide you with one.
- Using those settings, enter the mail to address where alerts should be sent.
- Enter the from email address of the account sending the email
- Enter the SMTP server address
- If your mail server requires authentication, enter the username and password
- Enter your mail server's port number (typically 25)
- If your mail server requires SSL or TLS click the SSL/TLS check box (note this may require you to change the port number to 465 or something else. check with your email host for details)

- Click the test email server button to send a test message to the to address
- A message will be displayed indicating whether or not the email was successfully sent. If an error is displayed contact your email host or skip ahead to the Troubleshooting & Support section.
- Please be sure to **check your SPAM folder** if you do not see the message in your inbox.

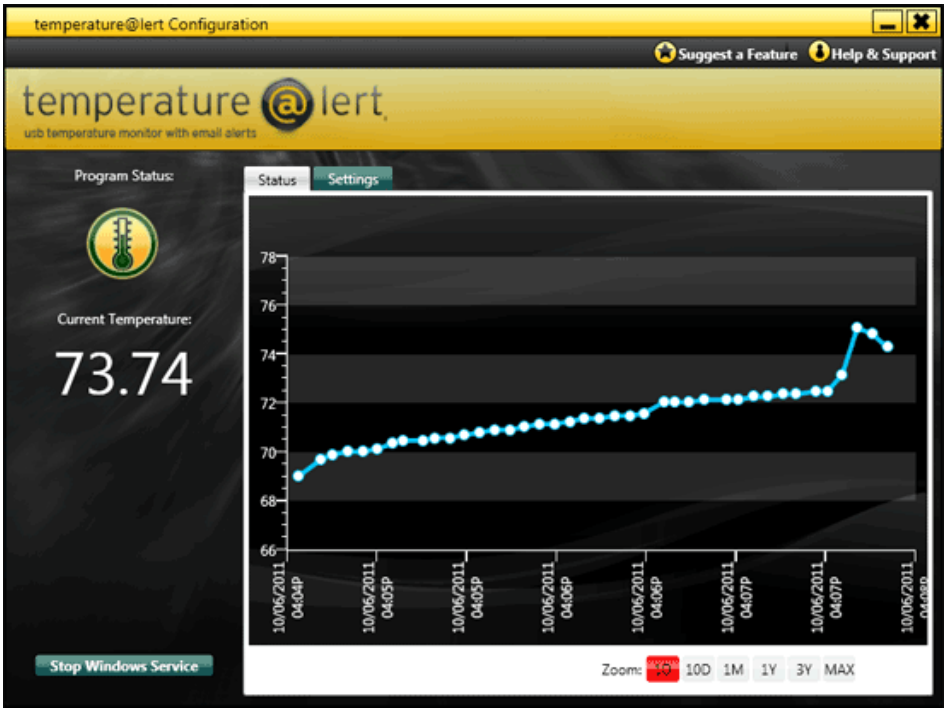
Saving Your Settings

- You can now click save and apply settings. Temperature@lert will automatically startup and begin reporting temperatures.
- If you do not see a temperature appear on screen after a few moments, close the configuration program and re-open it. If a temperature still does not display, please skip ahead to the Troubleshooting & Support section.

Close

Once configured, the Temperature@lert configuration program may be closed. Temperature@lert will continue to run in the background as a Windows service.

Status Tab Description of All Settings



Program Status

A visual indicator of the current alarm state is provided with the program status icon. A green thermometer indicates the temperature is within the acceptable range. A red thermometer with a slash through it indicates the temperature is outside of the acceptable range.

Current Temperature

The last read temperature reading is displayed as the Current Temperature. The temperature will be displayed in white when the temperature is within the acceptable range. The temperature will be displayed in yellow when the temperature is outside the acceptable range.

Zoom

You can change the scale of the graph by clicking on the different zoom levels.

- 1D - Shows the last day of temperatures on the graph
- 10D - Shows the last 10 days of temperatures on the graph
- 1M - Shows the last month of temperatures on the graph
- 1Y - Shows the last year of temperatures on the graph
- 3Y - Shows the last three years of temperatures on the graph
- MAX - Shows all available temperatures on the graph

Settings Tab Description of All Settings

temperature@lert Configuration

temperature @lert
usb temperature monitor with email alerts

Program Status

Current Temperature:
73.74

Stop Windows Service

Settings

temperature@lert USB Detected on COM29 [Rescan Now](#)

sensor cloud
Off 1. Register Device 2. Retrieve API Key Status: N/A

Email Alerts

Read Temperature Every 5 seconds Degree Units °F °C
High Temperature Alarm 74 °F SMTP Server smtp.emailsrvr.com
Low Temperature Alarm 32 °F Username you@yourdomain.com
Email Alert Frequency 0 minutes Password *****
Status Email Frequency 0 minutes Port 465
Mail To you@yourdomain.com Enable SSL/TLS
Mail From you@yourdomain.com [Test Mail Server](#)
Subject USB Device
Custom Email Message The current temperature

Advanced Settings: ([SNMP](#), [PC Shutdown](#), [Logging](#))

Save & Apply Changes

USB Detection Settings

Click the rescan button to locate the Temperature@lert USB device. Once the device is found, the USB Virtual COM Port Number will be automatically determined and displayed for you. If no device is found, please skip ahead to the Troubleshooting and Support section.

Sensor Cloud Settings

Email Alerts Settings

Read Temperature Every ____ Seconds

Choose the time, in seconds, between temperature readings. Typically 600 seconds (equivalent to every 5 minutes) is sufficient for most applications.

High Temperature Alarm

Set the upper temperature limit so that alerts are triggered when a current temperature reading rises above this specified number (degrees F).

Low Temperature Alarm

Set the lower temperature limit so that alerts are triggered when a current temperature reading falls below this specified number (degrees F).

Email Alert Frequency

This setting determines how often Temperature@lert should email you during an alarm condition. When the temperature exceeds one of your high or low temperature alarm settings, Temperature@lert will send you an email notification. Set the email alert frequency to 0 if you only wish to receive one message when the temperature goes out of range and one message when the temperature comes back into range. Setting the email alert frequency to a number higher than 0, will ensure you receive an email every X minutes while the temperature is out of range.

Status Email Frequency

This setting determines how often Temperature@lert will email you the current temperature. ***This email is sent even if the temperature is within your acceptable range.*** If this is set to 0, status emails will not be sent. If this is set to any number greater than zero, Temperature@lert will use that number to determine how often (in minutes) to send you the status email.

Mail To Address

Designate the email addresses where alerts are sent. Multiple addresses must be delimited with a comma and no space.

Mail From Address

Designate the email address from which alerts will appear to have been sent.

Subject

Enter the subject to be used when Temperature@lert sends an email alert.

Custom Email Message

Specify the text for an alert email using variables in the customized message. These variables will be replaced with the respective values before an alert email is sent.

The variables available for use are:

- %ct% to be replaced with the current temperature;
- %it% to be replaced with the low temperature alarm setting; and
- %ht% to be replaced by the high temperature alarm setting.

Degree Units

Choose between Celsius (C) and Fahrenheit (F) units (degrees) of measure.

SMTP (Simple Mail Transfer Protocol) Server

Designate your SMTP server (example: smtp.yourdomain.com).

SMTP (Simple Mail Transfer Protocol) Username

Designate the username used by your email provider.

SMTP (Simple Mail Transfer Protocol) Password

Designate the password used by your email provider.

SMTP Port

If necessary, designate a port other than the default provided.

Enable SSL/TLS

Check this box if your email server requires SSL or TLS encryption.

Test Mail Server

Click this button to test the connection to the specified mail server. A successful test will result in an email being sent to the designated addresses with the specified custom email message as well as all other current settings.

Actual alert emails will only display the custom email message and not the other current settings displayed in the test message.

If you have trouble sending email, please skip to the Troubleshooting & Support section at the end of this document.

Start/Stop Windows Service

Temperature@lert runs as a Windows service. You can use this button to manually start and stop the Windows service.

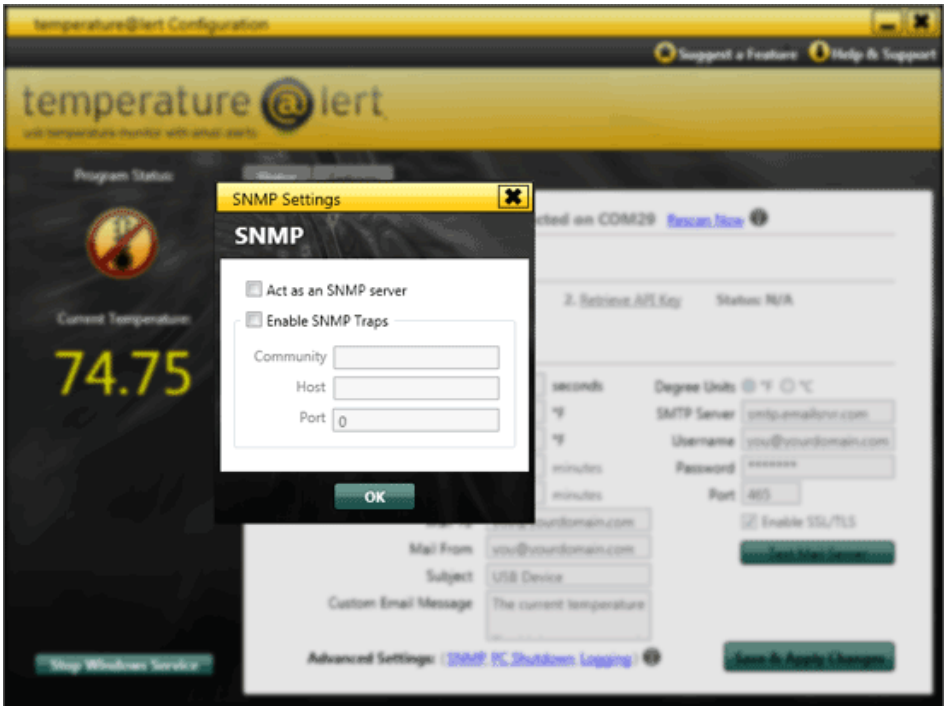
Save and Apply

Click this button to save and apply all changes.

Advanced Settings

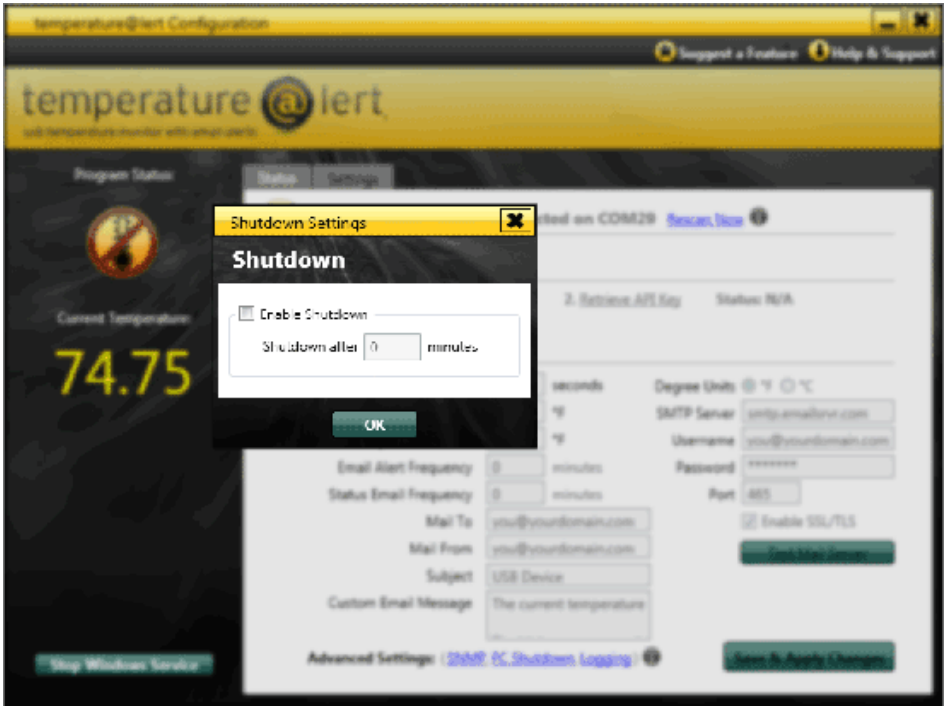
SNMP Settings

Simple Network Management Protocol allows you to integrate Temperature@lert with enterprise network management systems. You must provide your host, port and community string settings from your network administrator.



PC Shutdown

Click the checkbox to allow Temperature@lert to shut down the computer in the event of a temperature issue. Designate the number of minutes after a recurring alarm event to shutdown the computer.



Logging

The database status should indicate OK. If it does not, click rebuild. If this still does not solve the problem, please skip to the Troubleshooting & Support section.

Designate the directory where temperature logs will be stored. Typically, the default is fine for most installations. These logs are stored in MS SQL CE format which allows for easy integration into other applications and websites.



Help

The help screen provides the current software version and the device ID of your unit.



Specifications

| | |
|--------------------------------------|---|
| Model | TM-STD30 |
| English Dimensions | 0.4" x 0.8" x 1.8" |
| Metric Dimensions | 10 mm x 20 mm x 46 mm |
| Weight | 3 oz (85 grams) |
| Software Requirements | Windows 2000, XP, 2003, 2008 or higher; 32 or 64 bit; .NET 3.5 |
| Hardware Requirements | 10MB Hard Drive Free Space |
| Network Requirements | USB Port; PC with Internet Access |
| Built-in Battery Backup | No |
| Operating Temperature Range | -40°C to 70°C |
| Temperature Sensor Range | -55°C to 125°C (-67°F to 257°F) |
| Temperature Sensor Accuracy | ±0.5°C Accuracy from -10°C to +85°C |
| Temp/Humidity Sensor Range | 10% to 90% RH @ Operating Temperature (non-condensing) |
| Temp/Humidity Sensor Accuracy | ±3% RH Accuracy from -10°C to +70°C |
| Power Source | 5VDC 500mAh |
| Sensor Datasheet | http://datasheets.maxim-ic.com/en/ds/DS18B20.pdf |
| Maximum Sensor Cable Length | 16' (4.8 m) |
| Internal Battery Backup | No |
| Real Time Alerts | Yes |
| Monitoring Frequency | 5 seconds to 240 minutes |
| Continuous or One Time Alerts | User Selectable |
| Email, SMS, Phone Alerts | Yes, Optional, Optional |
| PC Shutdown | Yes |
| Data Log Format | MS SQL CE |
| SMTP Authentication | Yes |
| SNMP | Yes |
| iPhone App | Optional (with Sensor Cloud) |
| Online Temperature Log | Optional (with Sensor Cloud) |
| In the Box | TM-STD30, Quick Start Guide, Software CD-ROM |
| Warranty | 1 Year |
| Money Back Guarantee | 30 Days Risk Free (minus shipping) |
| Software Upgrades | Unlimited with Monthly Monitoring Plan |

Error Reporting

On the very rare occasion that you experience an error, detailed error information is logged to the error.log and your computer's event.log. If you need to [contact technical support](#), please have this error information available.

Troubleshooting & Support

Most technical issues are quickly solved with a short knowledge base article on our website. Please visit <http://www.temperaturealert.com/support> and click on your product to view the common issues and solutions.

One year of technical support is included with your purchase. After the initial year, software support and upgrades are available with the purchase of an annual support agreement. Just go to <http://www.temperaturealert.com/> and click on “Support Agreements” to renew or extend your support agreement.

Technical support is provided online at <http://www.temperaturealert.com/support/>.

For non-support related issues, please email info@temperaturealert.com or call 1-866-524-3540.

Email is the fastest way to communicate with Temperature@lert. We typically respond right away!

Warranty Information

Temperature@lert provides a 1 year warranty on all hardware products.

There are no serviceable parts inside the Temperature@lert hardware device.

Opening or tampering with any Temperature@lert hardware device voids this warranty and violates the software license agreement.

temperature @lert