User Manual for Demeter

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FCC ID: UMGDEM

This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:

(1) This device may not cause harmful interference and
(2) this device must accept any interference received,
including interference that may cause undesired operation.

INSTRUCTION TO THE USER

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

* Reorient or relocate the receiving antenna.
* Increase the separation between the equipment and receiver.
* Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
* Consult the dealer or an experienced radio/TV technician for help.

This equipment has been certified to comply with the limits for a class B computing device, pursuant to FCC Rules. In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

Table of contents

1.0 Manual

1.1 Overview

This document provides user interface guidelines for Vaza monitoring solutions and covers system features and functions. It can also be used as an additional reference for server installation instructions.

1.2 System requirements

The PC that is used to connect to the system's web server must run on windows XP, windows 2000, or later versions.

Internet Browser
The Demeter web server is developed to work with Internet Explorer 6 SP1 or a later version. Vaza Inc, can not guarantee optimum performance if the computer or devices that are connecting to the system run on the older version of the browser. The latest version of Explorer can be downloaded from the Microsoft web site**:** http://www.microsoft.com/windows/ie/downloads/default.mspx

Networks
Connection to the server can be done in two ways:
- Through using a shield cross linked network cable (RJ45) direct to a pc
- Through using a shield straight network cable (RJ45) against the local network or a router

The Product network default value is as follow:
[Server-Default]
IP: 192.168.0.11
Net mask: 255.255.255.0
Gateway: 192.168.0.1

Following value is to be change in pc, under network configuration:
[PC-Default]
IP: 192.168.0.12
Net mask: 255.255.255.0
Gateway: 192.168.0.1

For changing network attributes on the product , see
"3.6 Network".

1.3 General description

Demeter is wireless product for temperature monitoring system. Products include one receiver and number of battery-operated transmitter (temperature sensor). The Receiver will be connected to PC by using shield cross-linked network cable. The Transmitter will be placed in the area that is going to be monitors for temperature variation.

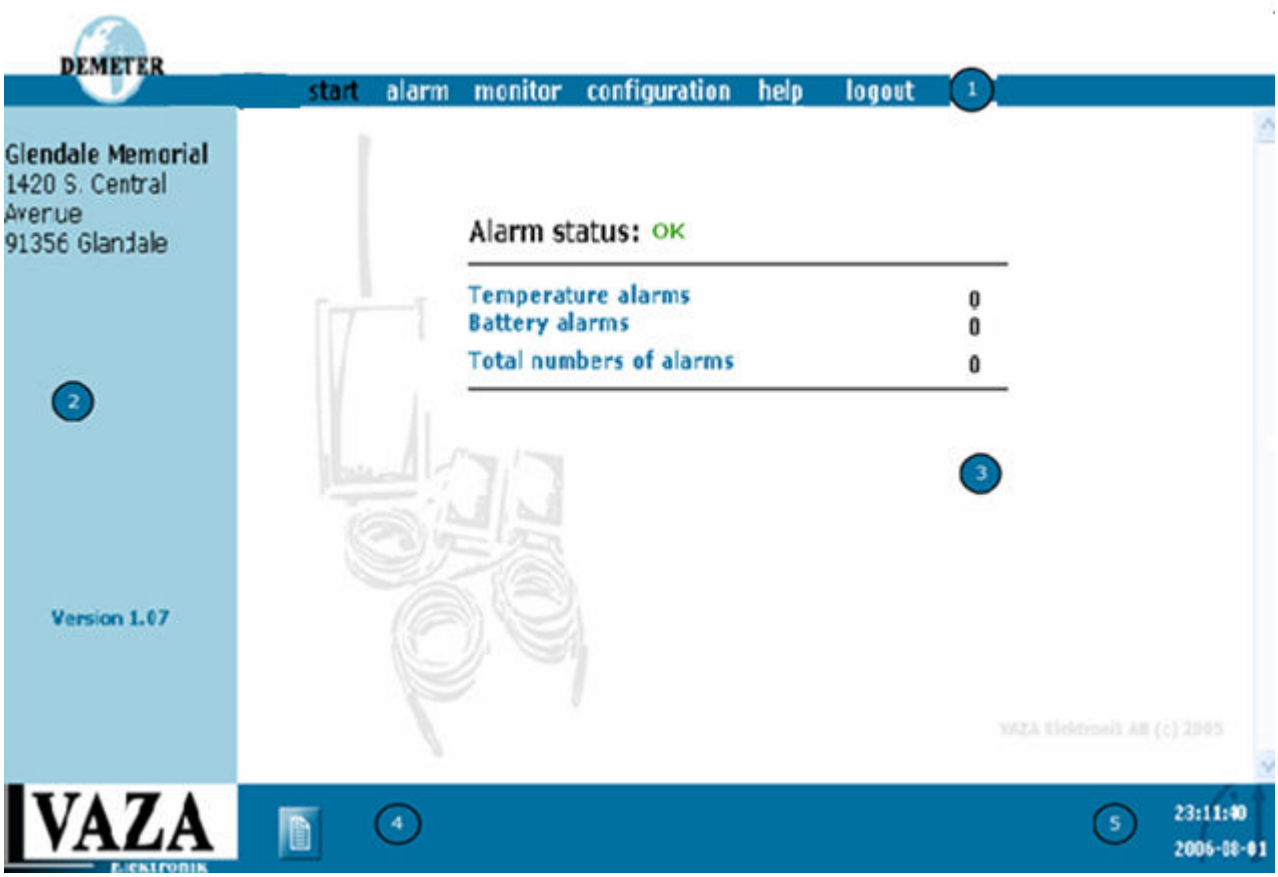
Receiver
1. Receiver
2. AC/DC converter
3. Shield Network cable

Transmitter
4. Transmitter
5. Temperature sensor

Picture of Receiver

Picture of Transmitter (temperature sensor)

2.0 Main Menu



Picture 2.0 Main menu.

Once connected to the system, you will be prompted to enter a valid user ID and password. After the first login you are able to change your password.

1. Main menu bar

From the main menu bar you can navigate through system futures or get to all the sub menus.

2. Submenu (menu control)
After the initial login the company name and address will be displayed on the left side of the page. With each subsequent selection from the main menu bar the submenus or menu control will be displayed on this side.

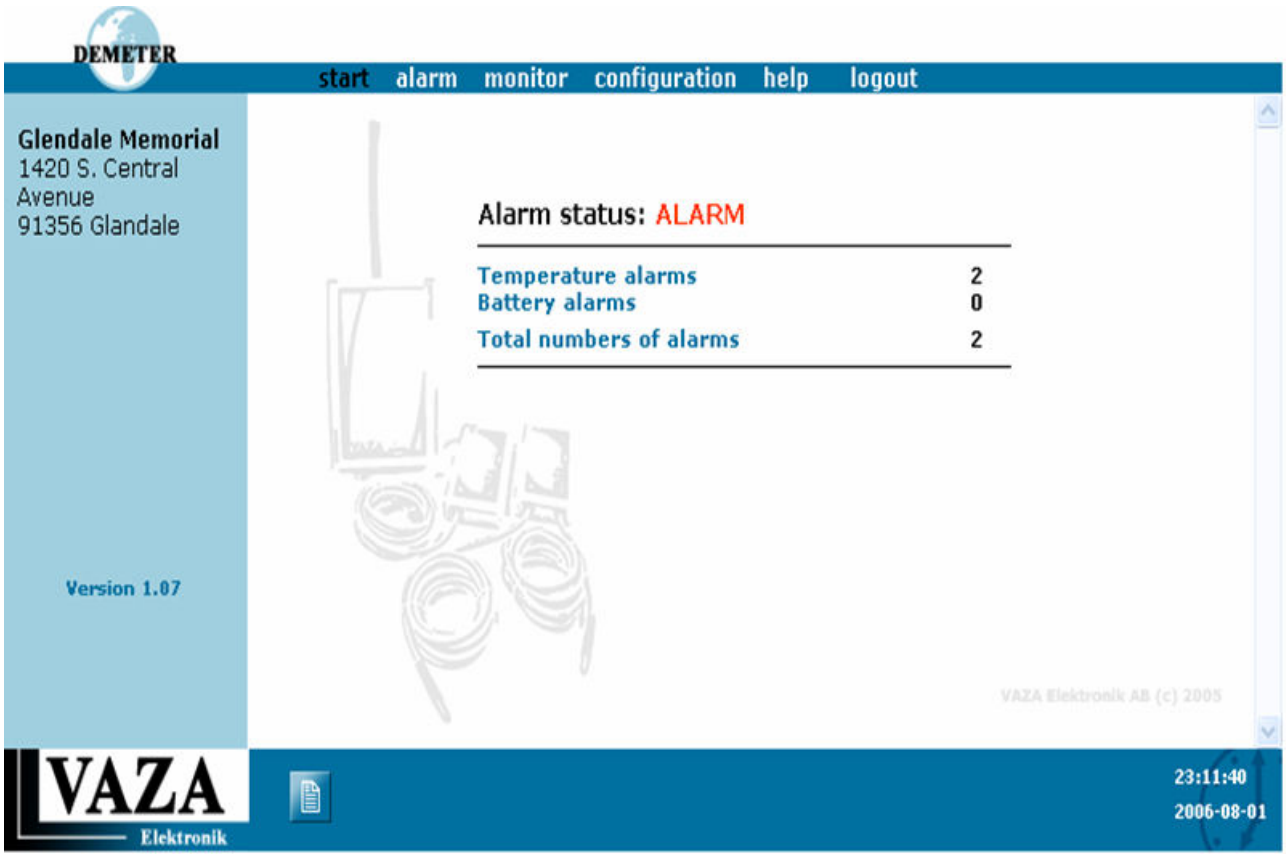
3. Main window
Detailed information from menu selections will be displayed in this area of the page.

4. Shortcut icon

 Select this icon to display detailed description of the configured nodes.

5. Date and time
Displays current date and time of the server.

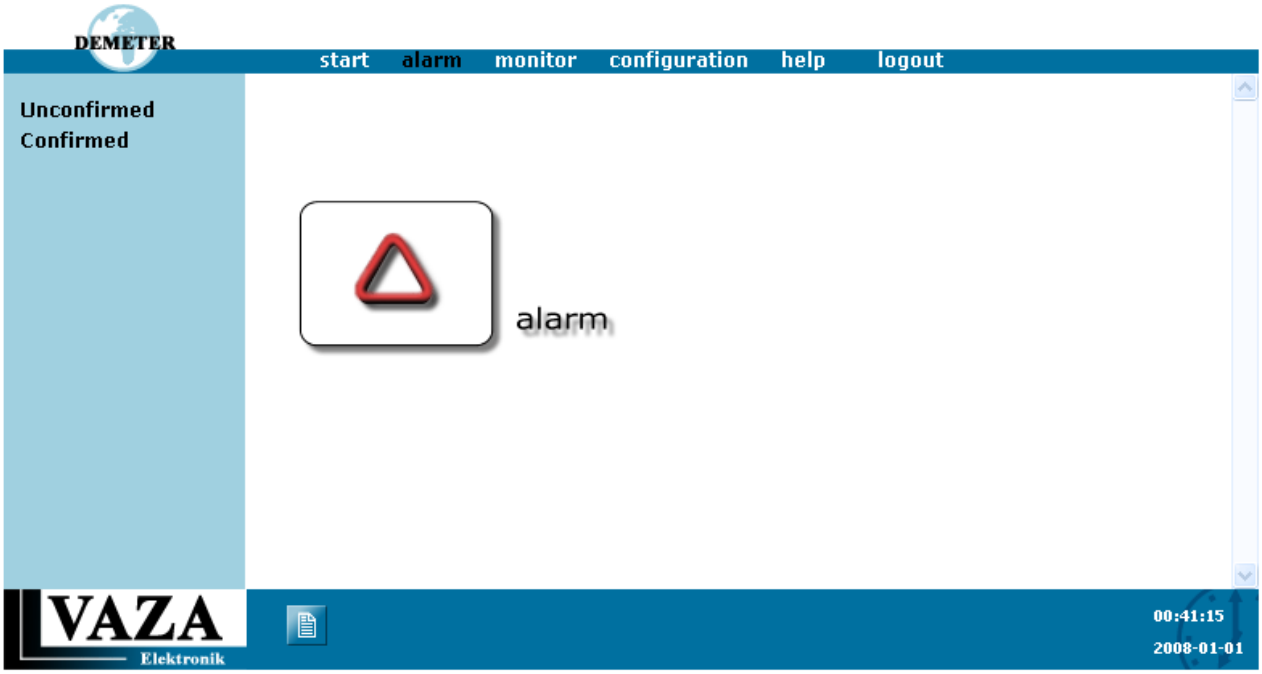
2.1 Start



Picture 2.1 Start.

This is the initial login page which displays the alarm status for the nodes and their batteries. If there are no alarms activated, it will display status “OK.” Otherwise, it will display alarms status: “ALARM”.

2.2 ALARM



If you select the alarm tab from the main menu bar, two submenus will be displayed on the left side of the page: unconfirmed and confirmed.

2.2.1 Uncofirmed

In order to confirm alarms:
1. Input a short comment to describe the cause of the alarm.
2. Type in the initials for the signature.
3. Select" ok".

Selecting the graph icon at the end of each row will display a graph of temperature variances during the time in which temperature alarm occurred.
Selecting the **graph** icon in each row will display a list with battery statuses for the battery alarm otherwise for it will display a graph of the temperature variances for the particular day which temperature alarm occurred for the temperature alarm.

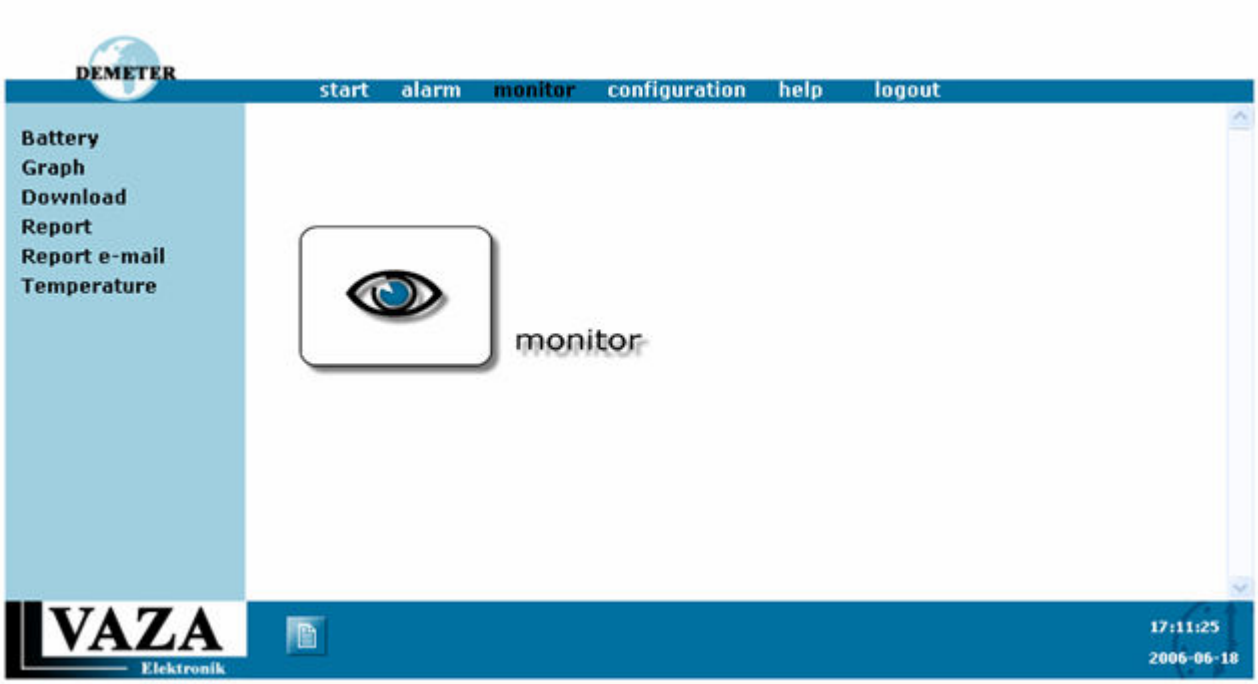
2.2.2 Confirmed

To clear the confirmed alarms and remove from the pages select the **okay** icon.
To remove and clear all of the confirmed messages select the **remove all** icon.

It is advisable to clear the page once there are 10 or more rows of confirmed alarms. If it reaches maximum capacity, a message will be displayed asking you to print the page for record keeping and erase the messages.

To print the list of confirmed messages click on the **print** icon.
Note: It is possible to save a soft copy of the list if you have installed adobe writer on your PC. This is an optional feature.

2.3 MONITORING



2.3.1 Battery

The list contains:
- Node: Node ID number.
- Name: Node name.
- Status: Node current status.
- Battery level: Description of status.
- Date: Date of last audit.
- Time: Time of last audit.

Status

High	Full
Normal	Half full
Low	Low (needs replacement)
Undefined	Undefined (occurs at installation).

2.3.2 Graph

The following will guide you through the required steps to view a graph of temperature variances for a given period.

1. Input start date in valid date format (MMDDYY)
2. Select the graph for a given day or a month.
3. Select **Node** ID. (You can select the short cut icon at the bottom of the page to get a full description of each node ID.)
4. Select **show graph** to display.

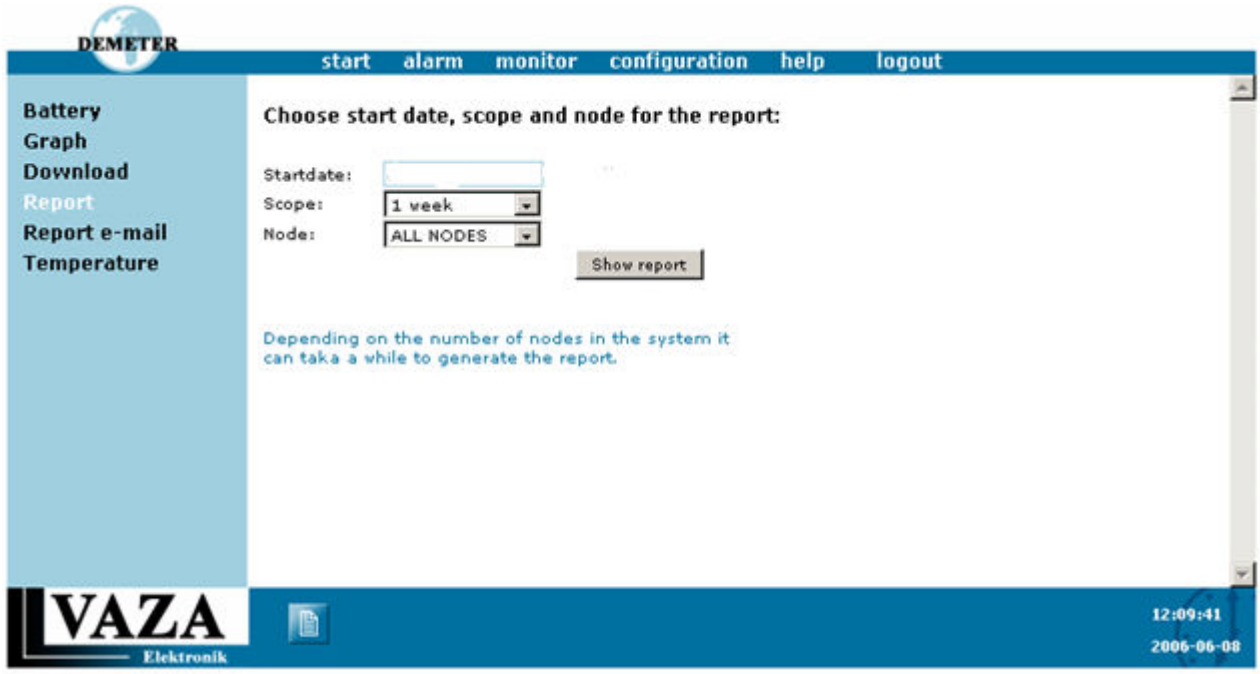
The graph is made up of
- Heading
- Graph
- Color key

Heading
Displays the selected date

The graph
The graph represents Y-axis temperature and X-axis time**.**

Color key
Describes what each color represents.

2.3.3 Report



Picture 2.3.3a monitoring - choices of report.

The following will guide you through the required steps to produce a report of temperature variances for a given period.

1. Input **start date** in valid date format (MMDDYY)
2. Select the **frequency** to run the report," 1 week" or" 4 weeks".
3. Select **Node ID**. (You can select the short cut icon at the bottom of the page to get a full description of each node ID.)
4. Select **Run report**.

The report heading contains the company's address, selected nodes, start date, end date, and space for a signature.

The subheading contains node ID, node name, sensor ID (1 or 2), date of the audit, minimum and maximum alarm settings, and minimum, maximum and average temperatures.

Body of report:

- Alarm:

Minimum	Lowest temperature set to activate the alarm
Maximum:	Highest temperature set to activate the alarm

-Temperature:

Minimum	Lowest measured temperature on the given date
Mean	Average of measured temperature on the given date

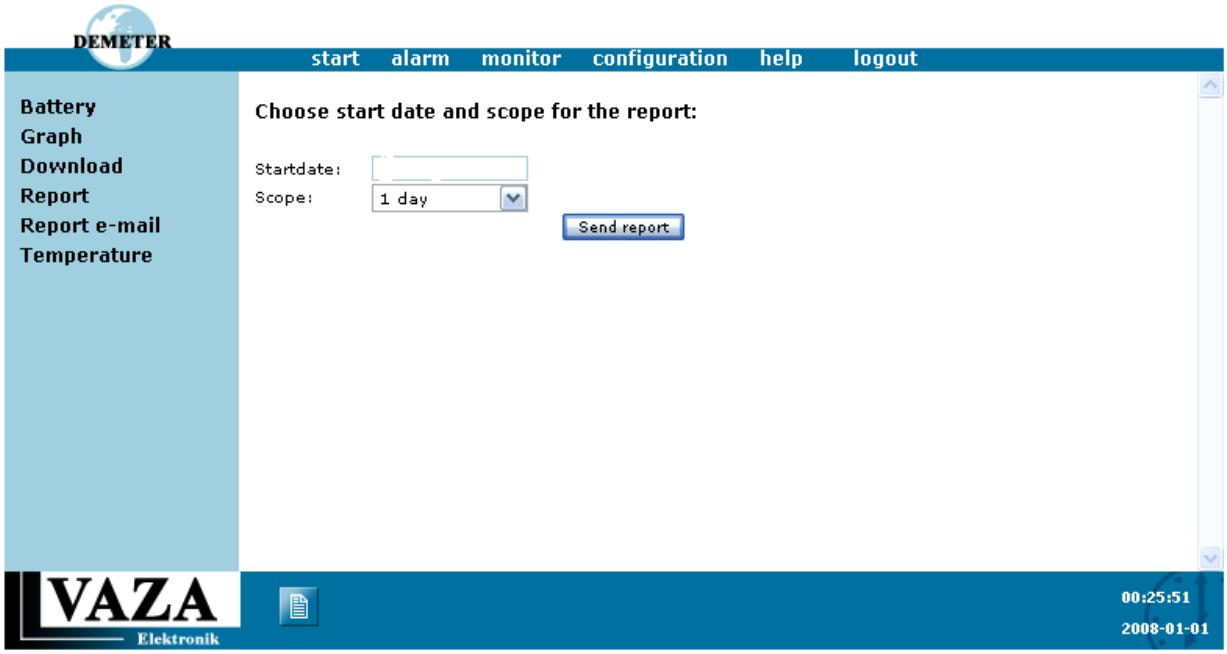
Maximum	Highest measured temperature on the given date

To print the report:

- Click on the **print** icon.

Note: it is possible to save a soft copy of the report if you have installed the adobe writer on your PC. This is an optional feature.

2.3.4 E-mail Report

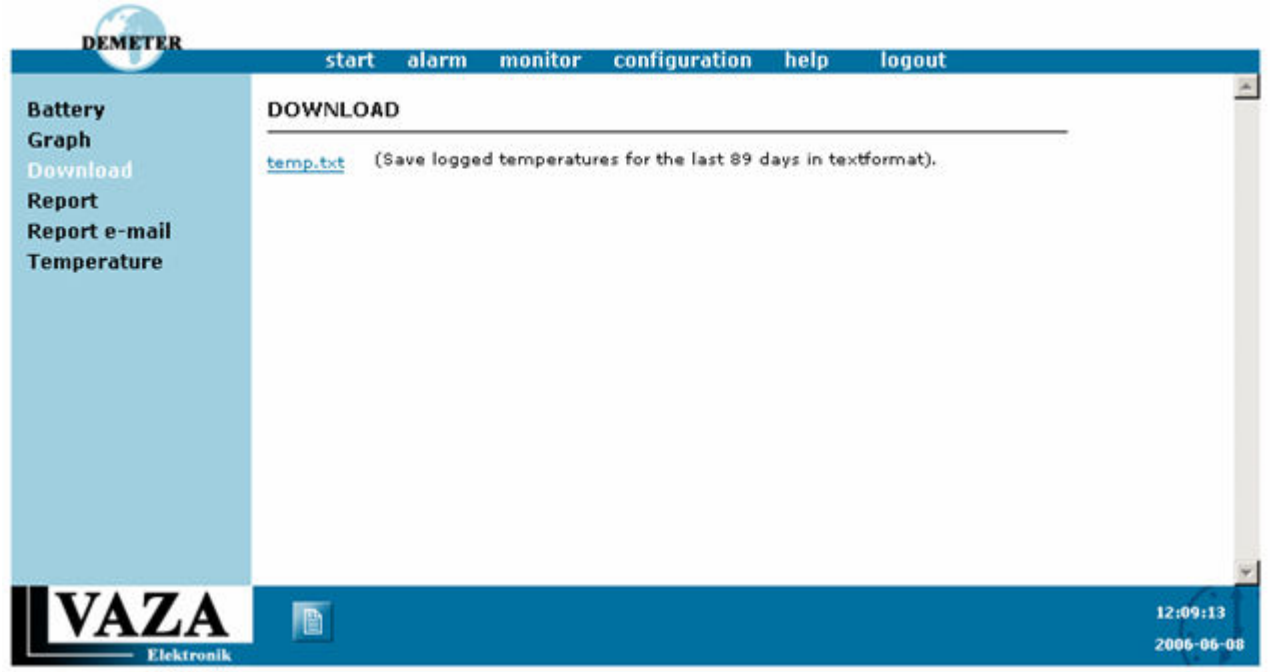


2.3.4 Send a report with e-mail.

The following will guide you through the required steps to produce and email a temperature report for a given period.

1. Input **start date** in valid date format (MMDDYY)
2. Select **run report**, "1 week" or "4 weeks".
4. Select the **send report** icon to send the email.

2.3.5 Download



2.3.5 download.

To download a copy of the temperature report click on temp.txt and save it in a desired location.

-temp.txt

Contains temperature records of the past 89 days in text format

2.3.6 Temperature

To view the latest temperature values select the submenu **Temperature**.

The page contains:

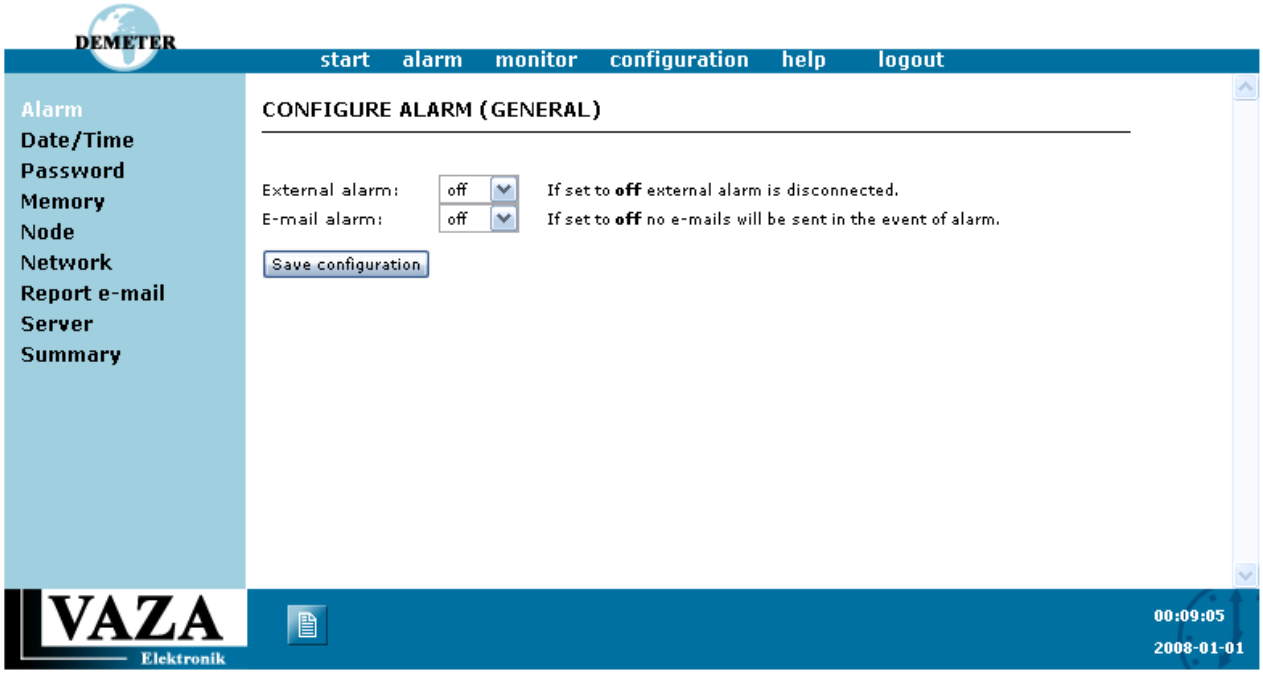
- Node: Node ID numbers.
- Name: Node name.
- Min: Lowest temperature.
- Mean: Average temperatures.
- Maximum: Highest temperature.
- Date: Date of last audit.
- Time: Time of last audit.

2.4 CONFIGURATION

Picture 2.4 Configurations

The following will guide you through the required steps to set the configurations.

2.4.1 Alarm



Picture 2.4.1 Configuration – Alarm.

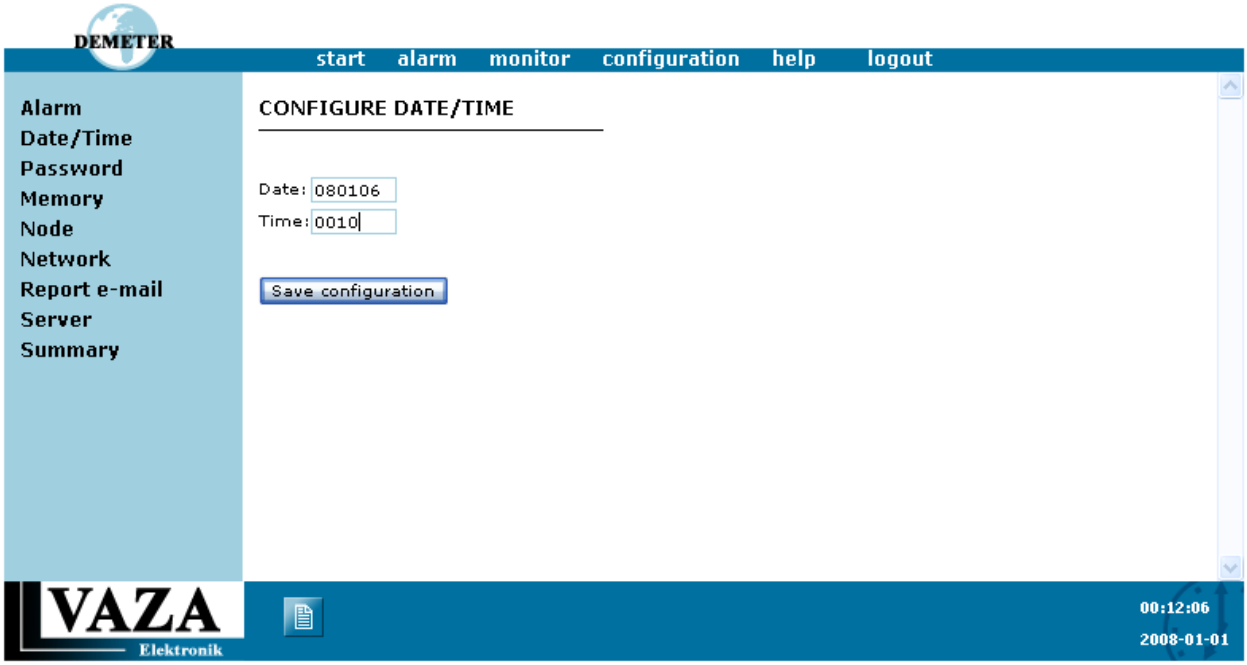
To configure the global alarm setting, select the **configuration** tab from the main menu and click on the **alarm** submenu.

1. Selects the **on/off** value to set the default for activation of external alarm.
2. Select the **on/off** value to set the defaults for activation of e-mail in case of alarm.
3. Click **save configuration**.

The specifics for the individual nodes' alarm settings are performed in the node configuration section which overrides the global setting:

Global	**Specific node**	**Results**
On	On	On
On	Off	Off
Off	On	Off
Off	Off	Off

2.4.2 Date/Time

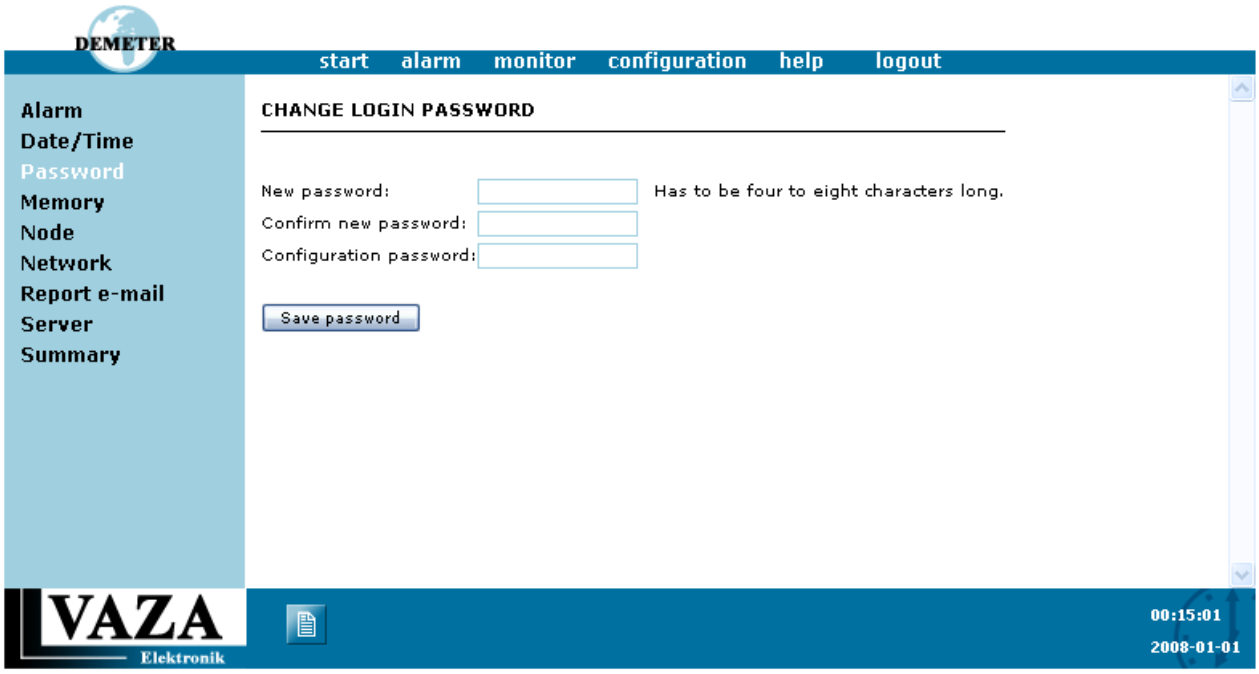


Picture 2.4.2 Configuration – Date/Time

To configure dates/time:

1. Select the **date** value in valid format (MMDDYY).
2. Select the **time** value in valid format (HHMM) military time.
3. Select **save configuration**.

2.4.3 Password



Picture 2.4.3 Configuration – Password

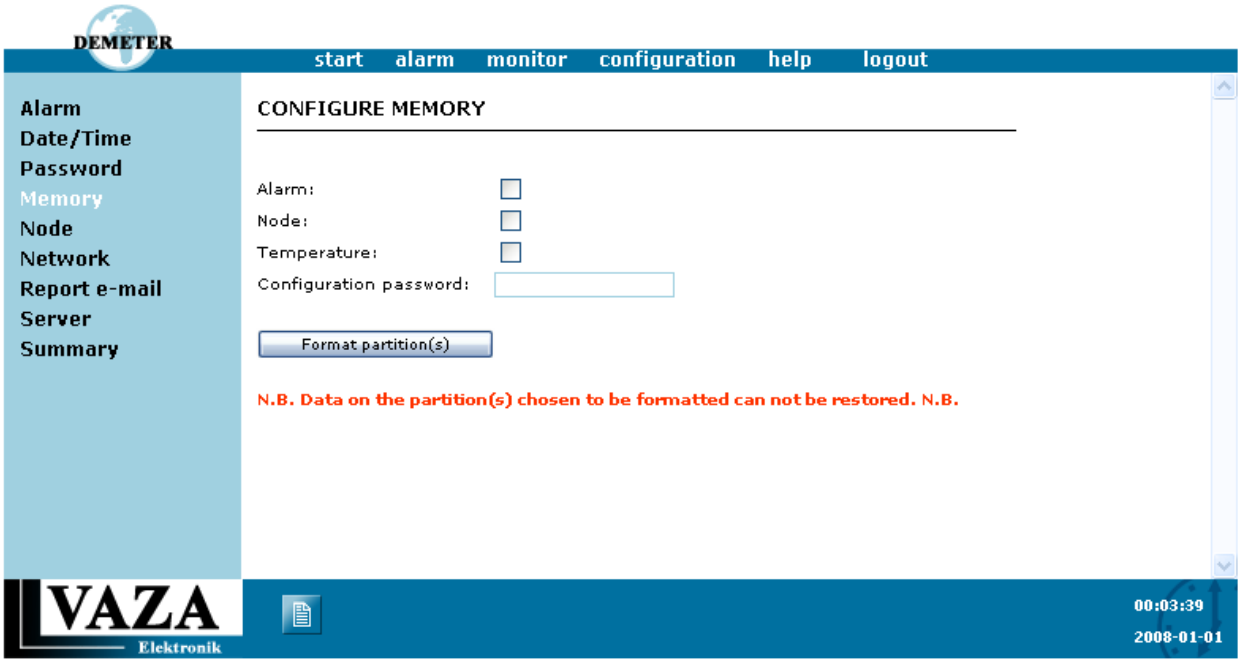
In order to configure password:

From the submenu on the left side of the page select the **password** tab.

1. Input the new password (Minimum of 4 and maximum of 8 characters).
2. Retype the password
3. Input configuration password.
4. Select **save password**.

Please note that the password is case sensitive and make sure caps lock is not on.

2.4.4 Memory



Picture 2.4.4 Configuration – memory

Only reset memory during the initial installation phase, otherwise you will not be able to restore any of the prior values.

1. To clear previous values and start over you can mark the alarm, node or temperature boxes (this is only advisable during the initial install.)
2. Input the **configuration password**.
3. Click on **format partition**.

2.4.5 Node

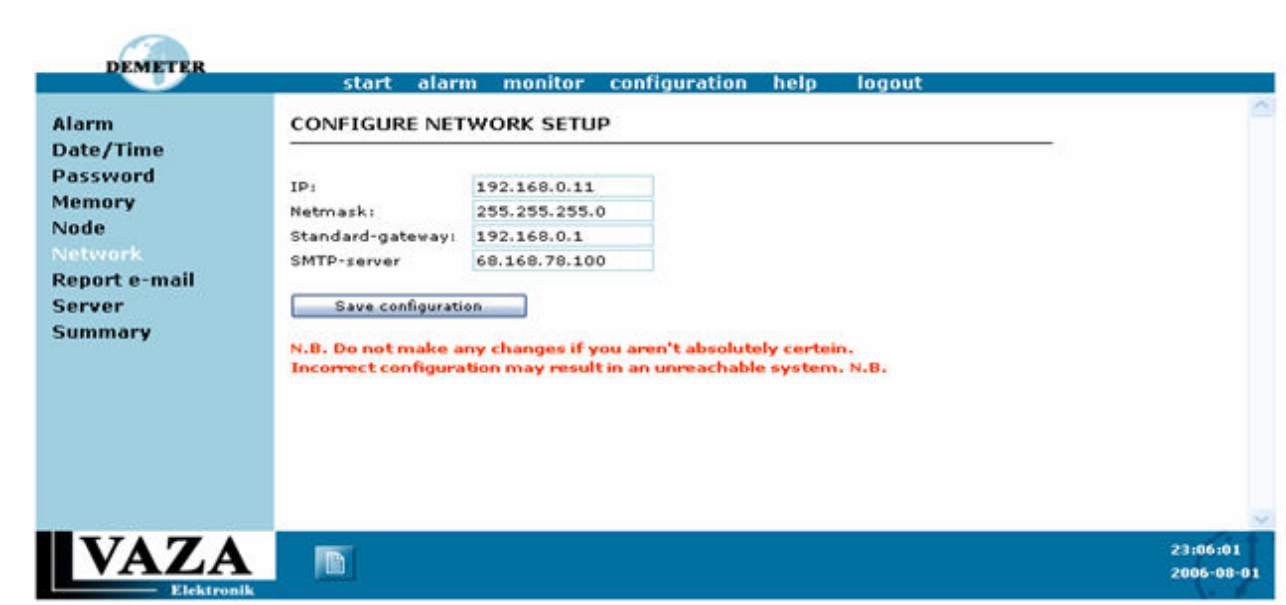
Steps to follow:

1. Select the **node ID**.
2. Click on **configuration.**

3. Input the **node** name (maximum 14 characters)
4. Input the **maximum temperature limit** to activate the alarm
5. Input the **minimum temperature limit** to activate the alarm.
6. Input **delay** or wait time before alarm activation. This option allows for defrosting periods. The alarm is activated if the condition persists past the specified delay time.

5. Input the value for the **offset** in order to dictate node calibration.
6. Select the number of **sensors** attached to the node. It can have 1 or 2 sensors.
7. Select the on/off value for the **internal alarm**.
8. Select the on/off value for the **external alarm**.
9. Select the on/off value to send **e-mail** with alarm activations.
10. Click on **save configuration.**

2.4.6 Network

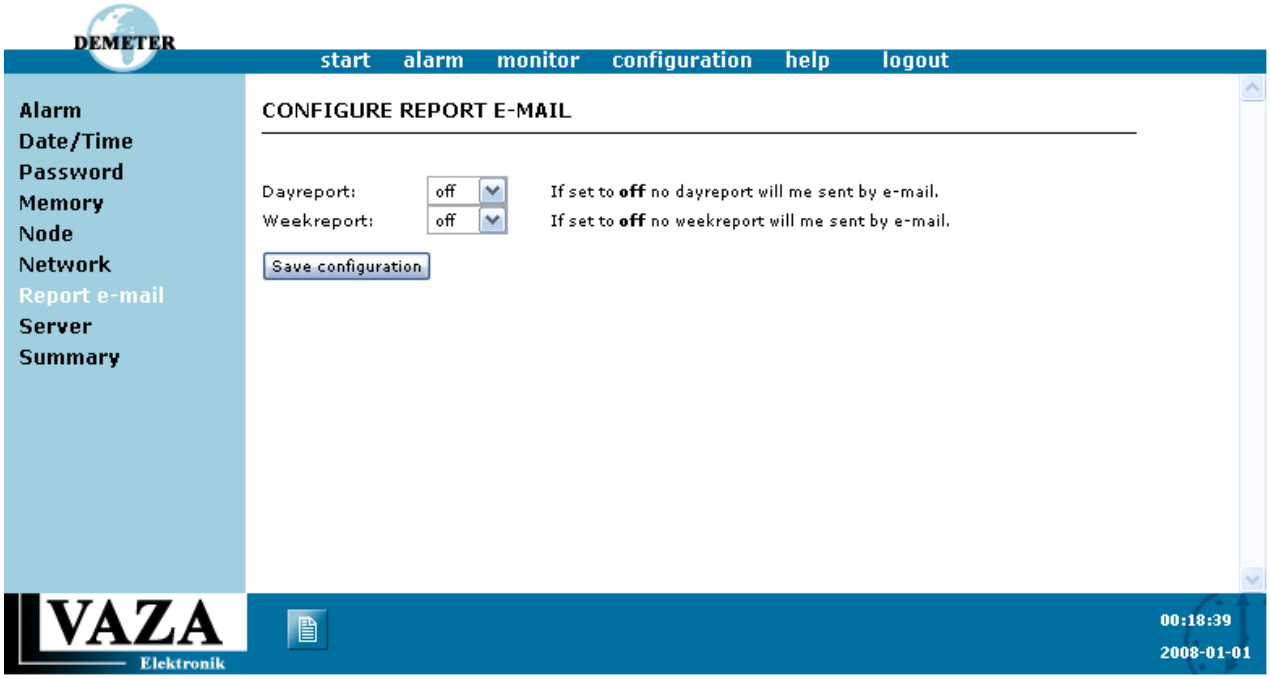


Picture 2.4.6 Configuration – Network

Steps to follow:
1. Input the **IP** address.
2. Input the value for the **netmask**.
3. Input the value for the **standard-gateway**.
3. Input the value for the **SMTP-server**.
4. Click on save configuration.

In case of problems connecting to the Demeter server after changes are made please refer to the installation manual.

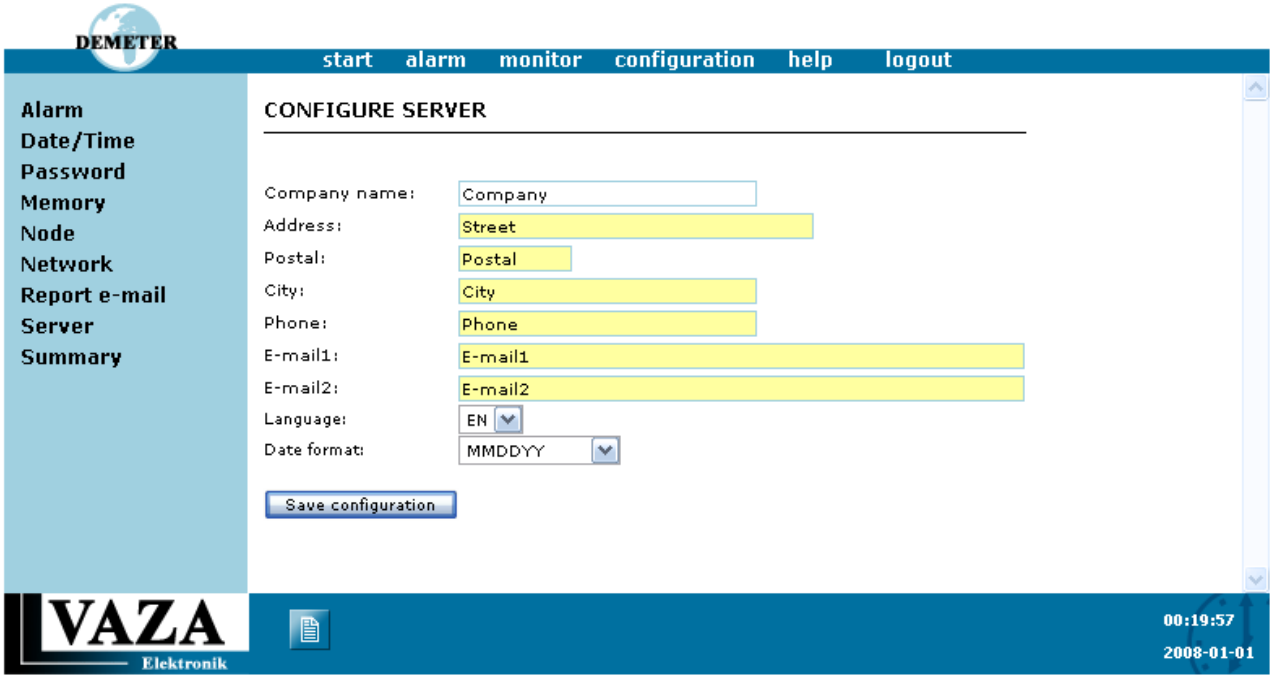
2.4.7 E-mail report



Picture 2.4.7 Configuration – E-mail report

Steps to follow:
1. Select **on/off** value for daily e-mail reports.
2. Select **on/off** value for weekly e-mail reports.
3. Click on **save configuration**.

2.4.8 Server



Picture 2.4.8 Server-Configuration.

Steps to follow:
1. Input the **company name**.
2. Input the **street address**.
3. Input the **zip code**.
4. Input the **city** name.
5. Input the **phone number**.
6. Input the **email address**.
7. Input the **second email address**. (If you need to send the email to more than two people please create email groups)
8. Select default **language**.
9. Select **date format.**
10. Click on **save configuration**.

2.4.9 Summary

Select the summary tab to view the summary of configurations – you can click on the node IDs to view detailed information for the nodes. You may also click on the other links on the page to get more detailed information on the selected parameters.