MTExcel User's Manual

Document No. 71-GEN-0113-R1.0   V4.1.3

MICRO THERMO
TECHNOLOGIES

Table of contents

Purpose of this document

This manual has been created to gives necessary tools for users to extract raw data from MT Alliance System into an MS Excel spreadsheet. It allows users to view raw data from MT Alliance offline.

Additionally, this manual shows step by steps the right procedure to extract raw data.

Specification of the environment

You need an MT Alliance working station where the data is to be extracted, for any given store.

You will need a second computer equipped with either: Microsoft EXCEL 97, 2000, XP or 2003.

MTExcel Configuration (Step 1)

1- Inside the MTAlliance software, in the menu bar, select Reports-Export to Excel and the following windows will pop-up :
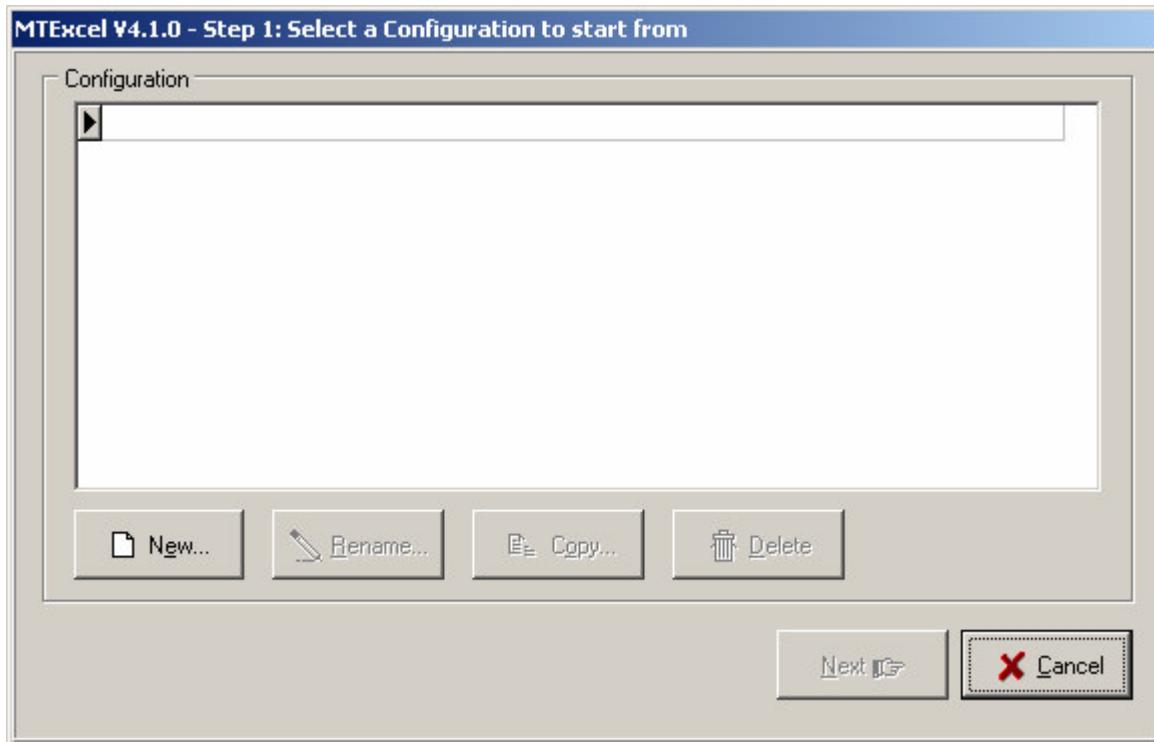
2- If there is nothing in the configuration list, go to 3, otherwise go directly to 4.

3- Click on 'New', give a name to your new configuration and then click 'Ok'.
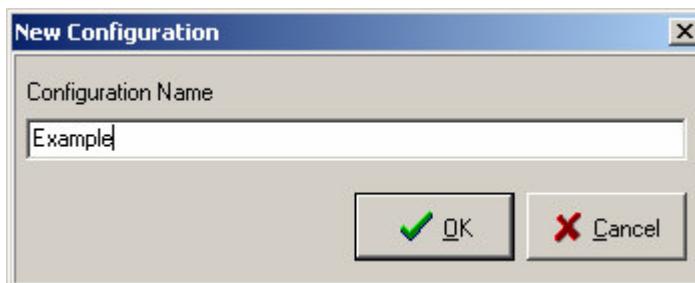
4- Select the desire configuration and then click 'next'.

Select Sensors and Custom Points (Step 2)
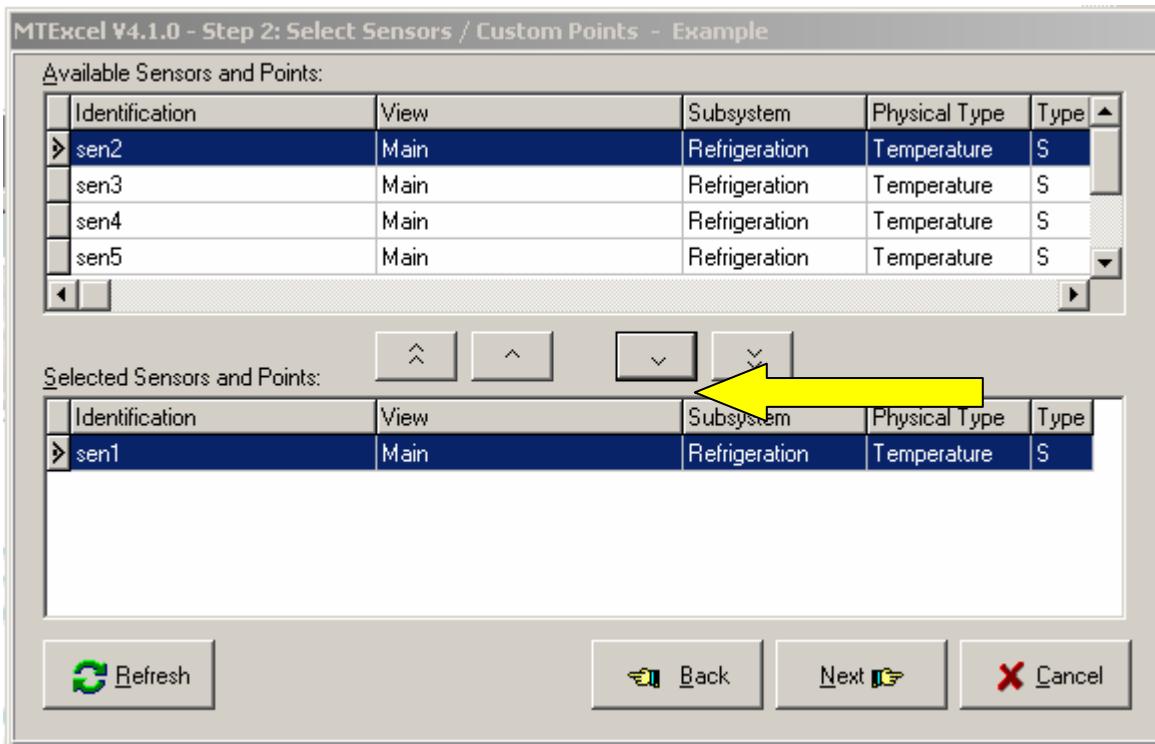
5- Select sensors from the list and click on the down arrow to move them in the bottom list. Once you are done with list of sensors you want to extract, click on 'Next'.

Note: There is a limitation of 60 sensors that you can select. This Limitation is required to respect Microsoft Excel maximum possible number of rows inside one worksheet.

Select Period (Step 3)
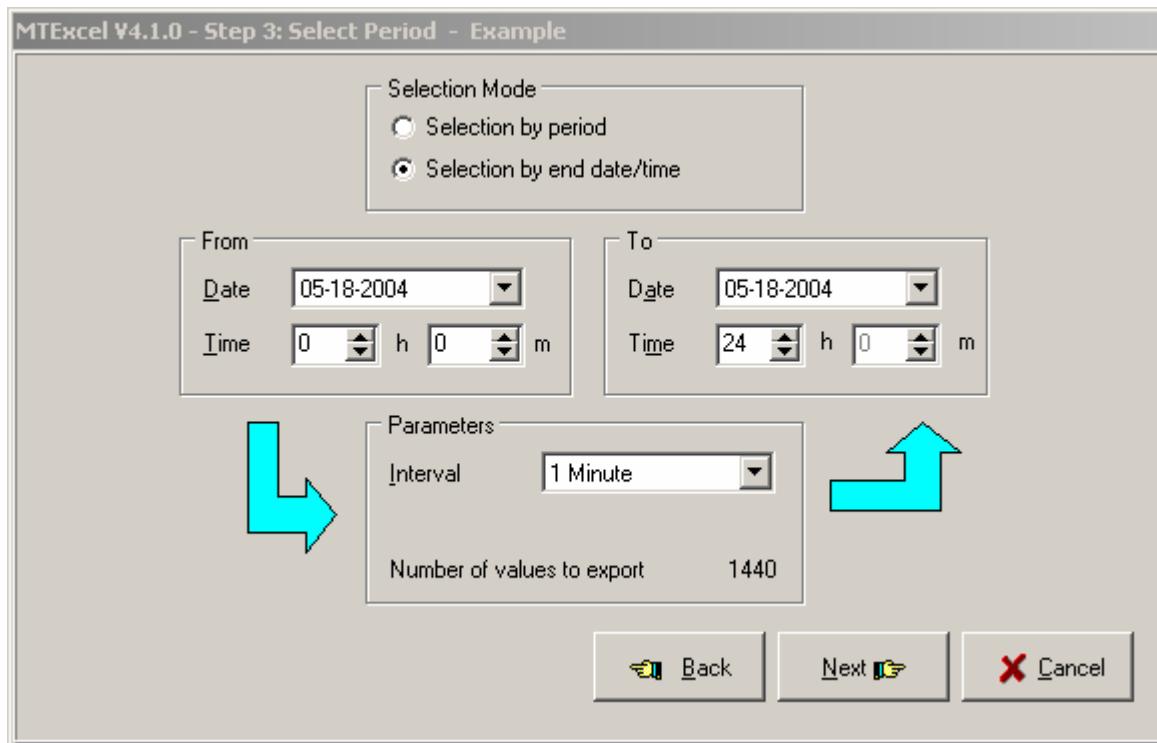
6-   a) Select the mode : by end date/time.
b) Choose the 'from' date and the 'to' date for the extraction.
(Recommended: 1 day interval)
c) Choose the interval of extraction of each sensor from each minute up to
each 6 hours. (Recommended: 1 min interval)
d) Click on 'Next'

- *Note :* The result of the division between the number of values to export and the
number of sensors selected, must be smaller then **65535**. This restriction has been
implemented to respect the maximum number of columns you can have in
Microsoft Excel.

Example 1 : Number of values to Export = 180
                          Number of sensors = 3
- 180/3 = 60 …..60 < 65535 so you are **OK**.

Example 2 : Number of values to Export = 90900
                          Number of sensors = 3
- 90900/3 = 30300 ….. 30300 < 65535 so you are **OK**

Example 3 : Number of values to Export = 141240
   Number of sensors = 2
- 141240/2 = 141240 ….. 70620 > 65535 you will generate an **ERROR**

Select Options (Step 4)
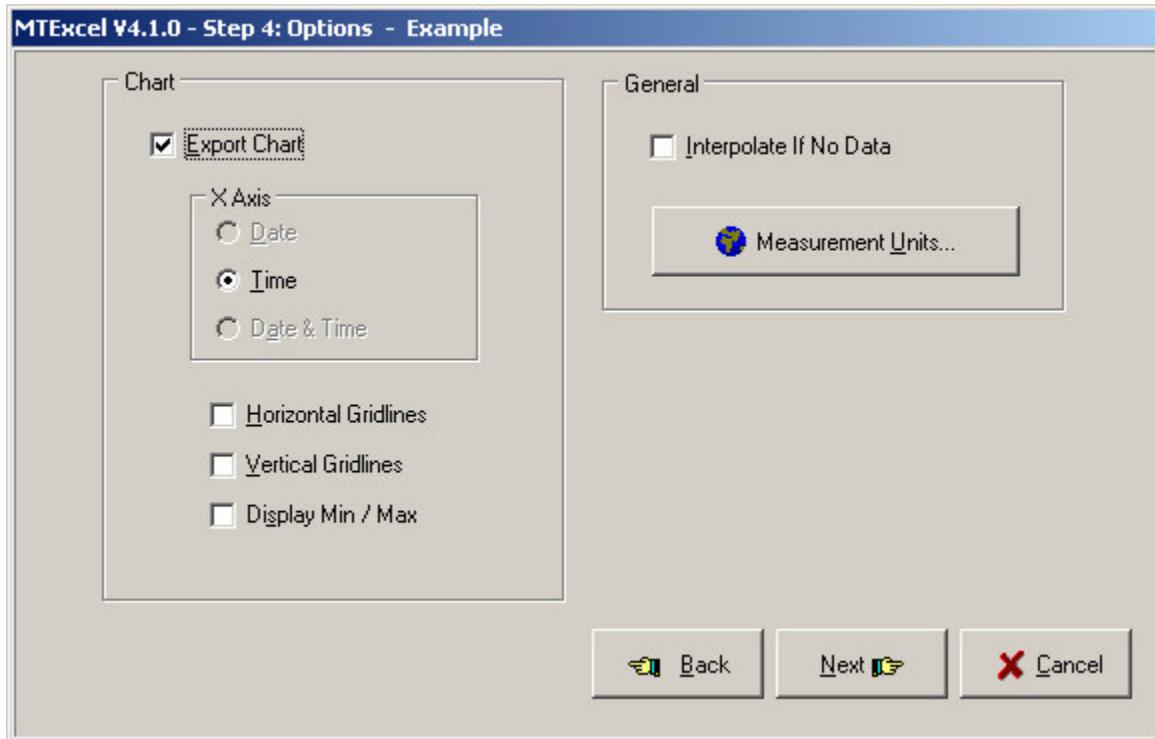
7-   Check the check box : **Export Chart** to generate a chart within your Excel report. You can select to display vertical or horizontal gridlines. The "display Min / Max" option will draw a vertical bar corresponding to the lowest and highest values found in each interval. Although the Alliance is supposed to be running 24 hours a day, 7 days a week sometimes it is stopped (power outage or technician on site). Check the "Interpolate if No Data" option if you want to draw a straight line between the last known values. This is useful if you want to estimate KWH based on KW over a long period. You can also change the measurement units before exporting the data. When you are done click on 'Next'

Select a File (Step 5)
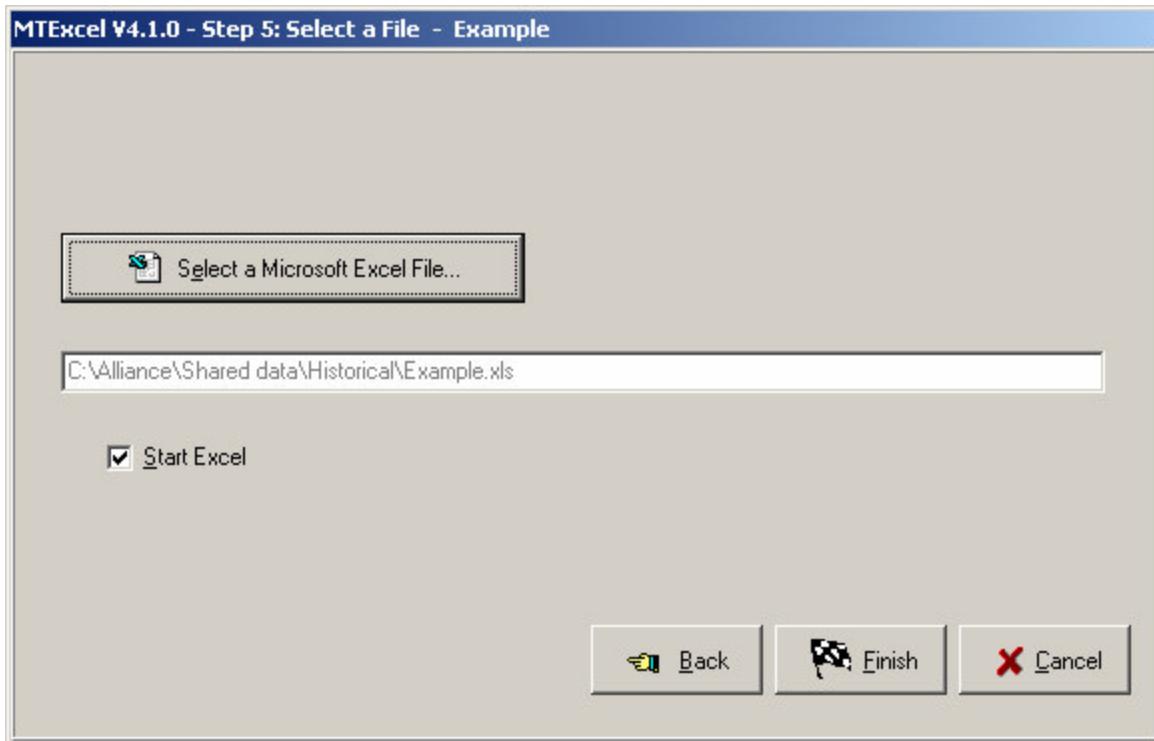
8- If MS Excel is installed in the working station where the MT Alliance is installed **(NOT RECOMMENDED)** :

1. Click on 'Select a Microsoft Excel File…';
2. Select the name of the file to export. If you select a name that already exist, the existing file will be replace by the new export. If you select a new name, MT Excel will create it for you;
3. Then click on 'Finish' to launch the exportation.

If the button 'Select a Microsoft Excel File…' shows 'Select a text File…'
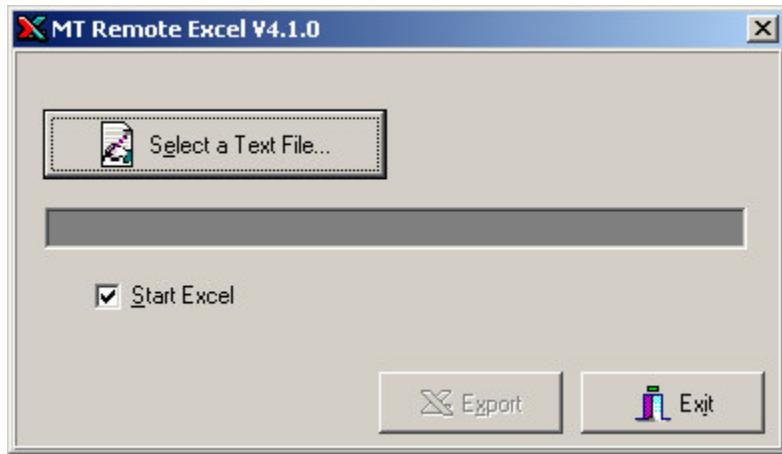
1. Click on 'Select a Text File…';
2. Select the name of the file to export. If you select a name that already exist, the existing file will be replace by the new export. If you select a new name, MT Excel will create it for you;
3. Then click on 'Finish' to launch the exportation.

MTRemoteExcel

This software allows you to import data from MT Alliance into a TXT file (text) to analyze it via MS Excel, if the computer, where MT Alliance is installed, doesn't have a copy of MS Excel. When using MTExcel a text file is always generated and created. We can transfer this file on another PC that is equipped with MS Excel. This can be done with MTRemoteExcel.

To import the text file with MTRemoteExcel.exe (In the PC where MSExcel is installed), follow these steps:

- Copy the text file (created by MTExcel) and MTRemoteExcel.exe from the PC where MTAlliance is installed to the PC where MSExcel is installed.

- Start : c :\Alliance\MTRemoteExcel.exe :

- Click on 'Select a Text File' to select the appropriate text file.

- Select option 'Start Excel' (If you want Excel to start immediately after the exportation)

- Click on 'Export'.

Note: Make sure the number of sensors exported and the interval of time are within the parameters, mention earlier, because the graph generated by the tool may suffer from a misused of the exporting tools. In the two following pages you will find two examples that show you this point.

Example 1
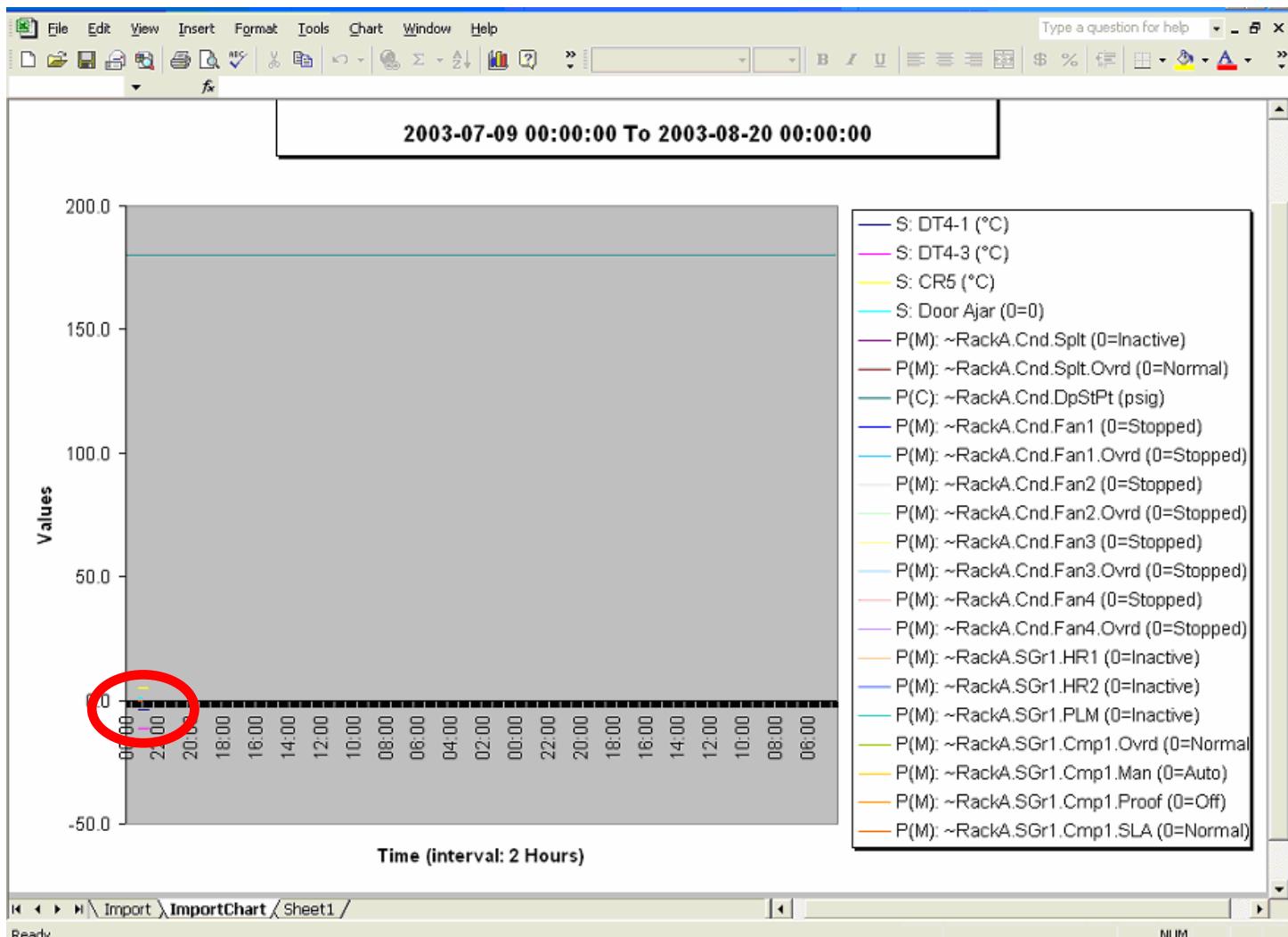
Example 2
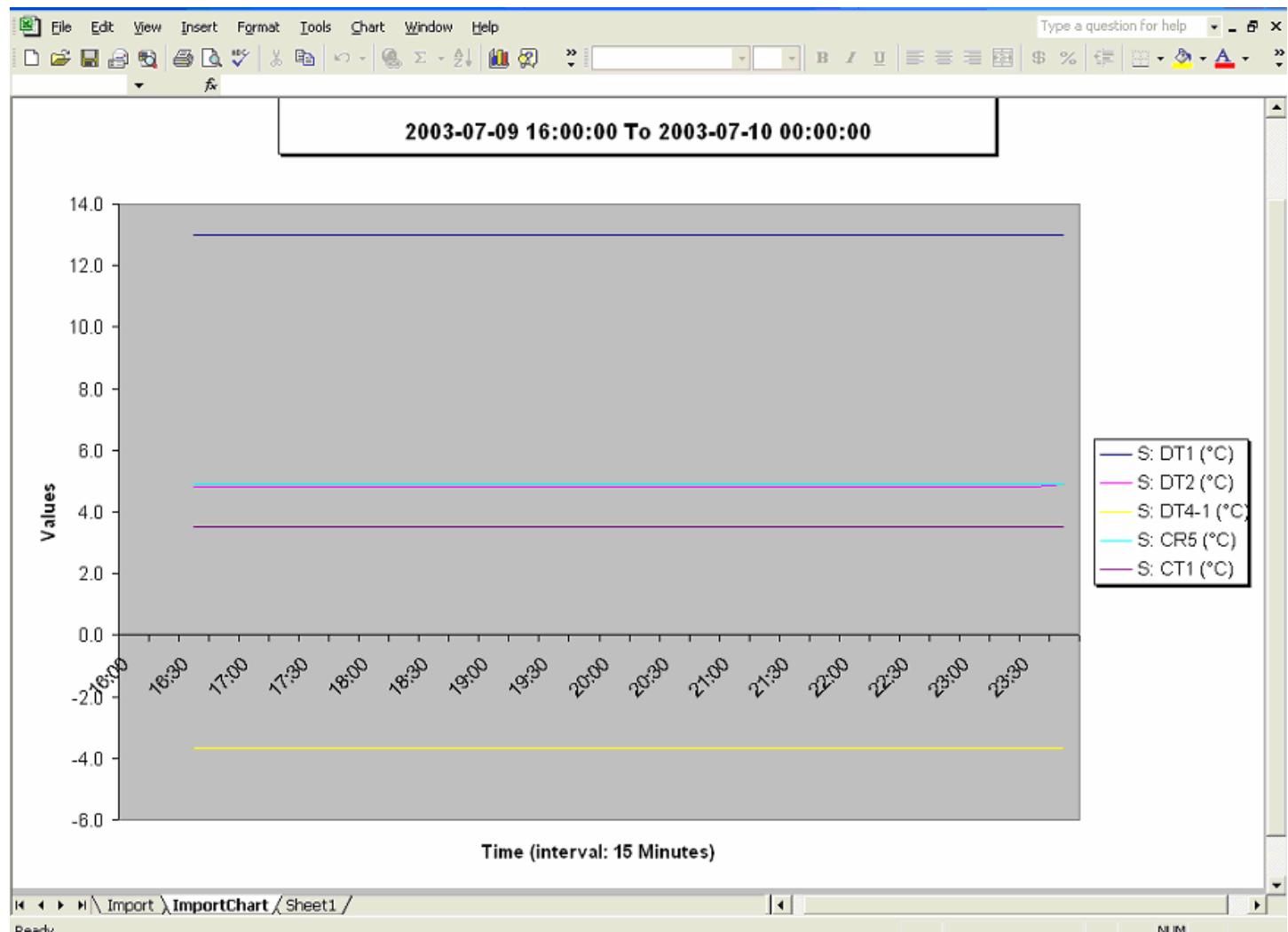
Details of pages imported into the Excel database

Tab 1 (Import)

- The first 16 rows show you all information an parameters selected in step 1 to 5 MTExcel.
- The two first columns are the dates and times of every value when logged in the database.
- The following columns (4 per sensors) shows :

1. Values of the sensor

   Average value calculated in the interval of time specified for all values logged for that sensor.

   Ex: For a 5 minutes interval, the sensor sends to the database five values (one every minutes), so the value displayed is the average of these five values.

2. %Validity

   It is the percentage of validity of the value showed for the specified period of time. For example, if the specified interval is five minutes and in one of the five minutes period of time, the MT Alliance software had been closed for three minutes for a backup. The percentage of valid data is 40%. Two minutes out of the five minutes interval actually really have valid and real data.

3. MinDelta

   MinDelta is the delta between the average value for the specified period of time of this interval and the smallest value during this interval.

4. MaxDelta

   MaxDelta is the delta between the average value for the specified period of time of this interval and the highest value during this interval.

   Tab 2 (Import Chart)

   Page where you will find the chart generated via the help of data extracted (Import)

   Tab 3 (Sheet1)

   Microsoft Excel default page that doesn't give any information, this page is empty.

Revision History

REV	Description	Révisé Par	Date
0.1	Document translation (from 71-GEN-0108), creation and formatting	CBC	26-aug-04
1.0	Revision and Publication	JG	06-sep-04