



Report Generator

Microsoft Excel Add-On for Reports

The Report Generator is a module for TAC Vista used for creating diagrams, presentations and reports.

The Report Generator interacts with Microsoft Excel and provides all the functionality of Microsoft Excel, such as calculations, functions, different types of diagrams and printouts.

Using the Report Generator the operator can document events, alarm states, consumption data, trends, operating status, etc., in a variety of reports. Operating reports, status reports, action reports, energy reports and surveys can be generated.

Diagrams and reports are primarily used to:

- Show the current status
- Inform the operator about actions
- Document energy consumption

The operator can select contents and layout for diagrams or reports and enter text notes about the daily operation of the site.

The Report Generator uses values from points and trend logs from the TAC Vista database in creating diagrams or reports.

The values from several points or trend logs can be displayed in the same diagram or report.

Diagrams and reports are saved in the TAC Vista database and you can run them again to display current values.

Diagrams and reports can be linked to alarms in the site, so that the chart or report is printed out when the alarm is tripped. It is also possible to use periodic printouts of diagrams/reports, controlled by events or alarms.

Diagrams or reports can be saved as Microsoft Excel files inside or outside the TAC Vista database and be displayed in the TAC Vista Webstation or Microsoft Excel.

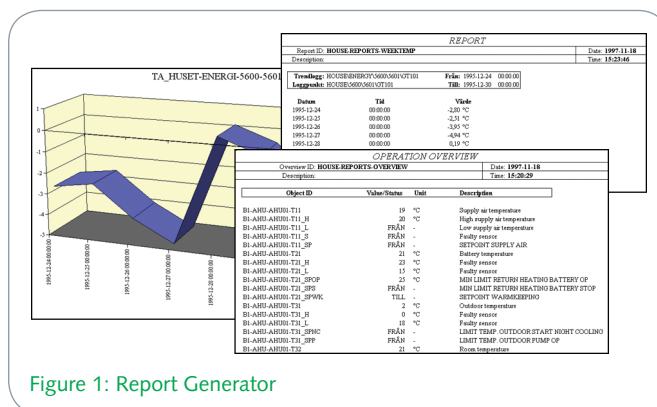


Figure 1: Report Generator

TECHNICAL DATA

Operating System

32-bit version of:

- Microsoft® Windows 7 Professional/Ultimate
- ... Microsoft® Windows Vista Business/Enterprise/Ultimate
- ... Microsoft® Windows XP Professional (Service Pack 2–3)
- Microsoft® Windows Server 2008 Standard/Enterprise
- Microsoft® Windows 2003 Server R2 SP2

External Software

- Microsoft Excel 2003 / 2007 / XP

Hardware Requirements

- PC..... Intel Pentium or compatible
- Minimum..... 2 GHz 32-bit (x86)
- Recommended primary memory..... 3 GB
- Minimum primary memory..... 1 GB

Part Numbers

- Report Generator..... 000882231
- Report Generator – Upgrade..... 000883231
- Report Generator – 1 year subscription..... 000884230

FUNCTIONS

Processing and Calculating

Acquired values can be processed during acquisition or presentation. Simple and advanced calculations can be performed.

Examples of what can be calculated:

- Energy consumption per square meter
- Energy cost
- Energy cost per square meter

All calculations, mathematical functions and logical controls in Microsoft Excel can be used to create diagrams/reports.

Storage and Updating

Diagrams/reports are stored in the TAC Vista database and updated with new values when they are displayed.

Diagrams/reports can be displayed on screen, printed or saved as Microsoft Excel files to be displayed and printed later.

The values in diagrams or reports saved as Microsoft Excel files are a snapshot of the values at the time the diagrams or report were updated. These diagrams or reports can be used to compare values from different occasions.

Periodical Diagram/Reports

The Report Generator can also produce periodic reports and printout of diagrams or reports. The settings for periodic reports are controlled by events or alarms in TAC Vista.

The reports can be printed out automatically or be saved as files, to be displayed or printed later.

Diagram/Reports for Intranet/Internet

Diagrams/reports can be displayed in TAC Vista Webstation. This feature requires a web browser and Microsoft Excel or Microsoft Excel Viewer.

Diagrams

Two kinds of diagrams can be created:

- General diagrams. An ordinary Microsoft Excel diagram which is stored in the TAC Vista database.
- Trend logging diagrams. Data is taken from a trend log containing values acquired from a plant.

Acquired data can be presented in all types of two- and three-dimensional diagrams that can be created in Microsoft Excel:

- Line diagram
- Bar graph

- Horizontal bar graph
- Areadiagram
- Circlediagram
- XY-diagram
- Surfacediagram

Reports

When a report is being created, data can be retrieved from:

- Functions, for headings and periods. Points, analog, digital, multi-state, string and time variables.
- Messages, alarms, change of states and time events.
- Trend data from a trend log.

Operating/Status Report

Operating reports contains the current values and statuses of the points. The report can be requested for any desired area of the site. The operator defines a search to specify which parts of the point list are to be printed.

The operator selects the format and adds explanatory text to the report.

Action report

The action report describes actions that must be taken when specific events occur, e.g. alarms.

Text and data are entered in free format. The content and design of the report can be adapted to suit the operator's requirements.

Energy Report

An energy report is used to present stored energy data and to perform calculations with this data.

Stored energy data can be printed directly in a report or may be used as a basis for further processing. For example, an energy report for a residential area can give the energy consumption per day or per month, the minimum, maximum and mean value of the outside temperature or the number of degree days.

The report can also include calculation of energy cost per dwelling or for a large number of dwellings as a group.

By specifying the current energy price, the energy cost for a measured energy consumption can be calculated directly in the report.

The content and layout of the report can be adapted to suit the requirements of the operator.

