MIDAs Evo

Metering and Monitoring Data Acquisition Software for Electrical Networks

What is MIDAs Evo?

MIDAs Evo is a software program specifically designed to be interfaced with our IME kilowatt hour and multifunction meters using the RTU Mobus protocol. The software allows the centralised monitoring and management of electrical energy consumption along with other sources of consumption such as water and gas.

The product allows the user to analyse energy consumption, giving them the ability to intervene, modify and reduce the consumption and reduce wastage. This in turn helps achieve environmental goals and of course reduce energy costs.

MIDAs Evo runs on standard PCs and is compatible with Microsoft Windows Vista, Windows Xp Professional and Home edition with SP2, Windows 2000 with SP4 and Windows 98SE system software. Minimum hardware requirements are Intel Pentium III or higher with a minimum of 256Mb of RAM and 2Gb of free hard disk space.

The PC on which the MIDAs Evo software is installed must be part of the monitored network to allow the ongoing sampling and measuring of the network configured meters.

All data from the configured devices is stored in a database on the monitoring PCs hard drive. This enables full historical archives to be used to generate graphics or tables to illustrate a devices operational history.

3 Versions Available

There are 3 MIDAs Evo software versions available offering 2 'feature' levels. The 2 'Base' level versions offer the monitoring of, up to 5 devices and up to 20 devices respectively. The 'Advanced' version, as well as having an advanced feature set, is able to monitor up to 1,020 devices. All versions are multilingual (English, Italian, French).

BASE Level

The Base Level function set makes available complete network management tools in a very simple manner.

- Set up of remote meter management
- Instantaneous instrument measurements displayed in a graphic representation of the devices physical front view.
- Digital or analogue indicator display modes
- Alarm settings
- Display of active and historical alarms in tabular form.
- Real time display of one or more devices measured parameters.
- Data base storage of measured devices output (data can be exported for any time frame for use in other programs).
- Monitoring of energy consumption of a single or multiple devices with one or more calendar tariffs.
- Ethernet and Internet network applications.

ADVANCED Level

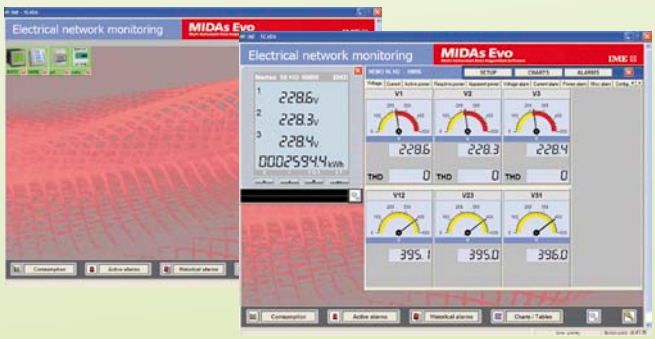
As well as encompassing all the functions of the base software the advanced version SCADA (supervisory control and data acquisition) has advanced functions to configure custom applications allowing interactive synoptics or creation of schematic graphic application images giving more visual interaction with plant and system processes.

The software also offers custom functions to run plant simulations and the sending of alerts and alarms via SMS or email (provided you have suitable hardware).

Display

All network connected instruments are organised in up to a total of 60 sections, with a maximum of 17 instruments per section and 6 sections per page (1020 instruments max.).

In each section a graphic representations of each devices front view is shown. A simple click on each device gives a virtual representation of the measured parameters of each device.



Alarms and Events

The software enables competent users (through passwording) the ability to set 'minimum' and 'maximum state' software alarms from the instruments returned measured parameters (voltage, current, power, frequency and cosø). The detected alarms and supervisor events (login, logout, communication errors) are stored in a log file.

Alarms and events are displayed in 2 ways:-

- Active alarms: The user is informed about current alarms and events in a graphic format using red/yellow 'Alarm Active' screen.
- Historical alarms: The user may scroll through historical archives of alarms and events and may export the data as a '.csv' file.

Graphics and Tables

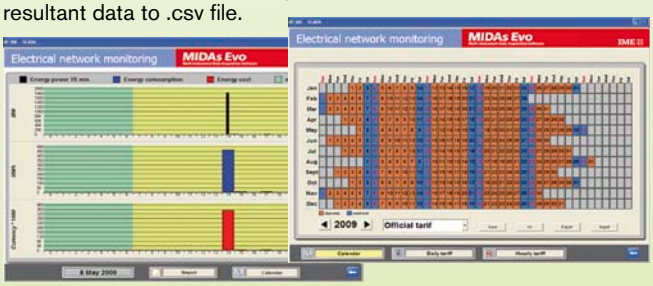
For each monitored device, it is possible to view a chart illustrating the measured parameter (current, voltage, power) in real time, or to display many devices in a single chart and may be scrolled or zoomed to optimise display.

The graphical charts are displayed in a separate window. The historical data is maintained in the database so the user can input a start date/time of their choosing to display past and present readings. Any part of the measured parameters from this chart can also be sampled and exported in .csv file format.

Energy Monitoring

The MIDAS Evo software enables analysis of each type of energy consumption (active or reactive, positive or negative) with up to three different tariff calendars. The usage data is stored without tariff indication (date and hours only). Tariff calendars are easy to set up and can be used immediately with the user able to simulate consumption costs and decide upon the best tariff profile.

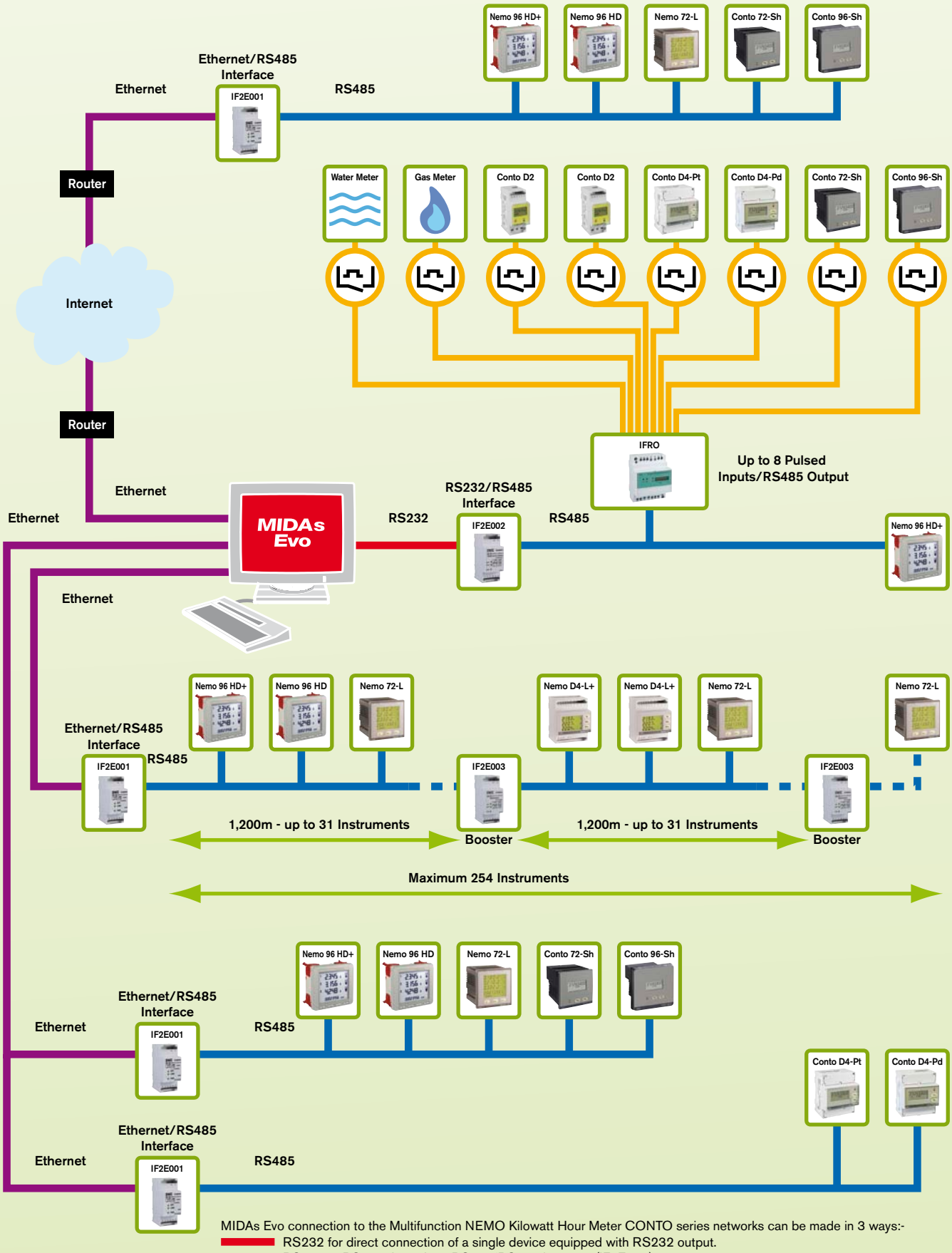
The consumption analysis can be made 'daily' (energy indication collected every 15 minutes), 'monthly' (energy indication collected one per day), or 'yearly' (with monthly collected energy indication) for one or multiple devices; again with the option to export the resultant data to .csv file.



MIDAs Evo

Multi-Instrument Data Acquisition Software for Electrical Network Monitoring

Connection Schematic



MIDAs Evo connection to the Multifunction NEMO Kilowatt Hour Meter CONTO series networks can be made in 3 ways:-

- RS232 for direct connection of a single device equipped with RS232 output.
- RS232 to RS485 through an RS232/RS485 interface (IF2E002)
- Ethernet to RS485 through an Ethernet/RS485 interface (IF2E001)

Note: For connections of greater than 1,200m on an RS485 network a booster is required (IF2E003)

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