



Midas Evo software is a program studied to be interfaced with IME products, multifunction meters, Kwhmeters, concentrators, through RTU Modbus protocol, for the centralisation of electric magnitudes and the managing of electric energy consumption and other sources such as water and gas.

It is a valid product to analyse and afterwards organize focused intervention for the modification and the reduction of energy consumptions, problem which is more and more perceived in these last years.

The software is compatible with Microsoft Windows, Vista, Windows Xp Professional and Home edition with SP2, Windows 2000 with SP4, Windows 98SE systems.

It can be used on PC with Intel, Pentium III or higher processors with at least 256MB and with 2GB free space on hard-disk.

Midas Evo must be always work on the PC where the network is monitored to allow the sampling of all measures the network configured meters.

All data are stored in a data-base on hard-disk which offers the possibility whenever you want to enter the meters historical archive to display or export the data in graphic or table format.

The software is available in 2 feature levels: base (it manages up to 5 or up to 20 devices) and advanced (it manages up to 1020 devices). It is in multilingual version (Italian, English, French)

The base level allows the complete network management, using the functions that the program make available in a very simple way:

- Set-up meter remote management.
- Instantaneous displays of measures obtained by the instruments on real graphic reproductions of the front view.
- Display in the form of digital values or analogue indicators.
- Alarms setting
- Display of active and historical alarms under table form.
- Graphic realisation of one or more measured magnitudes.
- Storage of measured magnitudes on data base with the possibility of data export in any moment
- Monitoring of energy consumption of single devices or of a set with the possibility to set up one or more tariff calendars.
- Applications on Ethernet and Internet networks.

Besides the advanced level puts at end-user's disposal, a real SCADA with advanced functions to configure one's own application in terms of manufacturing of interactive synoptics, or the graphic creation of the application image and the interaction with it through instruments of common use in Windows such as keys, selection elements, graphic images.

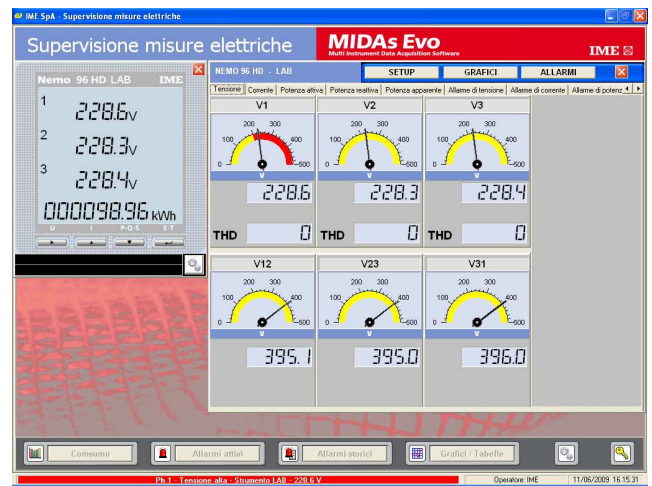
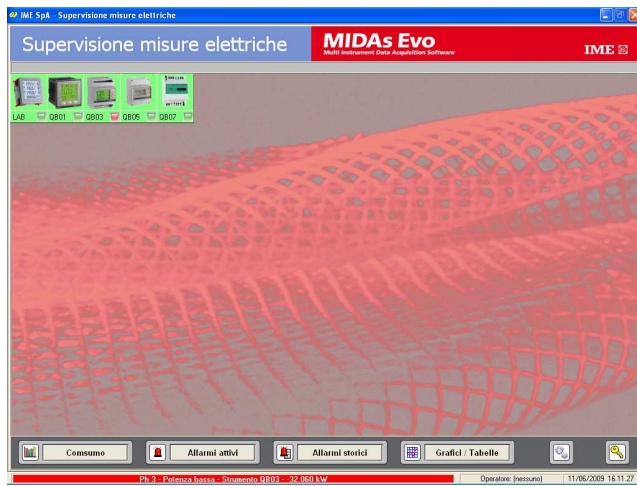
Besides, it offers the possibility to write custom functions to run particular plant situations and to send SMS or mails (provided that you have the suitable hardware).

Ordering code

- **SWMF2** managing software up to 5 multifunction devices(the use is bound to the use of a software key)
- **SWMF3** managing software up to 20 multifunction devices (the use is bound to the use of as hardware key)
- **SWMF4** managing software up to 1020 multifunction devices (the use is bound to the use of as hardware key)

Display

All network connected instruments are organized in sections (max 17 per section) with a max of 6 sections each page and up to 60 sections totally. In the sections the instruments are shown with the graphic image of the front view. With a simple click on each device you can have at disposal virtual instruments to check the situation at a glance of all magnitudes measured by each device.

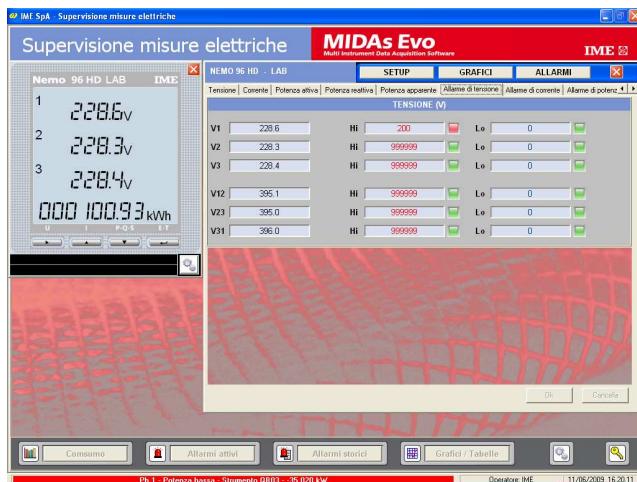


Alarms and events

The program offers the possibility to the enabled users (through password) to set min. or max. software alarms on the magnitudes restored by the instruments (voltage, current, power, frequency and cosφ). The detected alarms and the supervisor events (login, logout, communication errors) are stored in the historical archive.

The alarms and events display occurs in 2 ways:

- Active alarms: it informs the user about the current alarms and events (the alarms are also shown in the graphic form on the scale instruments with two-colour yellow-red method).
- Historical alarms: it allows the user to enter the historical archive of alarms and events with the possibility to export the data in "csv" format files.

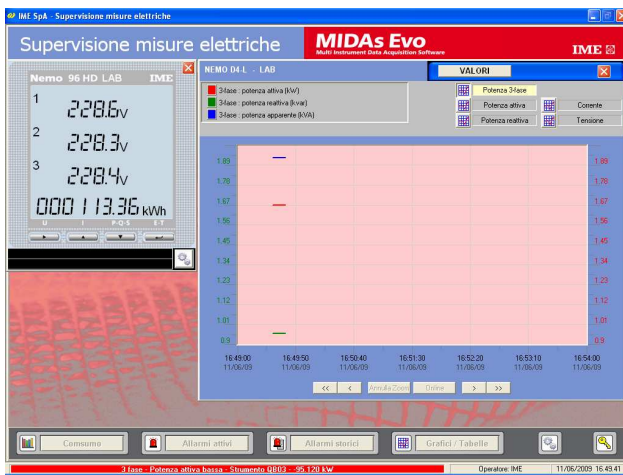


Graphics and tables

For each device is possible to realise charts of one or more measured magnitudes (current, voltage, power) in a real time or realise one chart only of the magnitudes detected by many devices.

For a better display the chart scales can be enlarged or scrolled as much as you like.

The graphics are an open window on the past or on the present, the values of desired measures are always at disposal on the data-base; it is sufficient to decide which should be inserted in the graphic and fix the starting date. Another function at user's disposal is the possibility of sampling the measurable magnitudes in tables which can be printed or exported in "csv" format file.



The screenshot shows the 'Custom tables' window with a table of recorded data. The table has columns for 'Date', 'Time', and four power-related metrics: 'MNS2 Active power phase 1 (kW)', 'MNS2 3phase active power (kW)', 'MNS2 3phase apparent power (kVA)', and 'MNS2 Active power phase 2 (kW)'. The data shows a series of zero values over time.

Date	Time	MNS2 Active power phase 1 (kW)	MNS2 3phase active power (kW)	MNS2 3phase apparent power (kVA)	MNS2 Active power phase 2 (kW)
07/05/2009	22:58:30	0.000	0.000	0.000	0.000
07/05/2009	22:59:00	0.000	0.000	0.000	0.000
07/05/2009	22:59:30	0.000	0.000	0.000	0.000
07/05/2009	23:00:00	0.000	0.000	0.000	0.000
07/05/2009	23:00:30	0.000	0.000	0.000	0.000
07/05/2009	23:01:00	0.000	0.000	0.000	0.000
07/05/2009	23:01:30	0.000	0.000	0.000	0.000
07/05/2009	23:02:00	0.000	0.000	0.000	0.000
07/05/2009	23:02:30	0.000	0.000	0.000	0.000
07/05/2009	23:03:00	0.000	0.000	0.000	0.000
07/05/2009	23:03:30	0.000	0.000	0.000	0.000
07/05/2009	23:04:00	0.000	0.000	0.000	0.000
07/05/2009	23:04:30	0.000	0.000	0.000	0.000
07/05/2009	23:05:00	0.000	0.000	0.000	0.000
07/05/2009	23:05:30	0.000	0.000	0.000	0.000
07/05/2009	23:06:00	0.000	0.000	0.000	0.000
07/05/2009	23:06:30	0.000	0.000	0.000	0.000
07/05/2009	23:07:00	0.000	0.000	0.000	0.000
07/05/2009	23:07:30	0.000	0.000	0.000	0.000
07/05/2009	23:08:00	0.000	0.000	0.000	0.000
07/05/2009	23:08:30	0.000	0.000	0.000	0.000
07/05/2009	23:09:00	0.000	0.000	0.000	0.000
07/05/2009	23:09:30	0.000	0.000	0.000	0.000
07/05/2009	23:10:00	0.000	0.000	0.000	0.000
07/05/2009	23:10:30	0.000	0.000	0.000	0.000
07/05/2009	23:11:00	0.000	0.000	0.000	0.000
07/05/2009	23:11:30	0.000	0.000	0.000	0.000
07/05/2009	23:12:00	0.000	0.000	0.000	0.000
07/05/2009	23:12:30	0.000	0.000	0.000	0.000
07/05/2009	23:13:00	0.000	0.000	0.000	0.000
07/05/2009	23:13:30	0.000	0.000	0.000	0.000
07/05/2009	23:14:00	0.000	0.000	0.000	0.000
07/05/2009	23:14:30	0.000	0.000	0.000	0.000
07/05/2009	23:15:00	0.000	0.000	0.000	0.000
07/05/2009	23:15:30	0.000	0.000	0.000	0.000
07/05/2009	23:16:00	0.000	0.000	0.000	0.000
07/05/2009	23:16:30	0.000	0.000	0.000	0.000
07/05/2009	23:17:00	0.000	0.000	0.000	0.000
07/05/2009	23:17:30	0.000	0.000	0.000	0.000
07/05/2009	23:18:00	0.000	0.000	0.000	0.000
07/05/2009	23:18:30	0.000	0.000	0.000	0.000
07/05/2009	23:19:00	0.000	0.000	0.000	0.000
07/05/2009	23:19:30	0.000	0.000	0.000	0.000
07/05/2009	23:20:00	0.000	0.000	0.000	0.000
07/05/2009	23:20:30	0.000	0.000	0.000	0.000
07/05/2009	23:21:00	0.000	0.000	0.000	0.000
07/05/2009	23:21:30	0.000	0.000	0.000	0.000
07/05/2009	23:22:00	0.000	0.000	0.000	0.000
07/05/2009	23:22:30	0.000	0.000	0.000	0.000
07/05/2009	23:23:00	0.000	0.000	0.000	0.000
07/05/2009	23:23:30	0.000	0.000	0.000	0.000
07/05/2009	23:24:00	0.000	0.000	0.000	0.000
07/05/2009	23:24:30	0.000	0.000	0.000	0.000
07/05/2009	23:25:00	0.000	0.000	0.000	0.000
07/05/2009	23:25:30	0.000	0.000	0.000	0.000
07/05/2009	23:26:00	0.000	0.000	0.000	0.000
07/05/2009	23:26:30	0.000	0.000	0.000	0.000
07/05/2009	23:27:00	0.000	0.000	0.000	0.000
07/05/2009	23:27:30	0.000	0.000	0.000	0.000
07/05/2009	23:28:00	0.000	0.000	0.000	0.000
07/05/2009	23:28:30	0.000	0.000	0.000	0.000
07/05/2009	23:29:00	0.000	0.000	0.000	0.000
07/05/2009	23:29:30	0.000	0.000	0.000	0.000
07/05/2009	23:30:00	0.000	0.000	0.000	0.000
07/05/2009	23:30:30	0.000	0.000	0.000	0.000
07/05/2009	23:31:00	0.000	0.000	0.000	0.000
07/05/2009	23:31:30	0.000	0.000	0.000	0.000
07/05/2009	23:32:00	0.000	0.000	0.000	0.000
07/05/2009	23:32:30	0.000	0.000	0.000	0.000
07/05/2009	23:33:00	0.000	0.000	0.000	0.000
07/05/2009	23:33:30	0.000	0.000	0.000	0.000
07/05/2009	23:34:00	0.000	0.000	0.000	0.000
07/05/2009	23:34:30	0.000	0.000	0.000	0.000
07/05/2009	23:35:00	0.000	0.000	0.000	0.000
07/05/2009	23:35:30	0.000	0.000	0.000	0.000
07/05/2009	23:36:00	0.000	0.000	0.000	0.000
07/05/2009	23:36:30	0.000	0.000	0.000	0.000
07/05/2009	23:37:00	0.000	0.000	0.000	0.000
07/05/2009	23:37:30	0.000	0.000	0.000	0.000
07/05/2009	23:38:00	0.000	0.000	0.000	0.000
07/05/2009	23:38:30	0.000	0.000	0.000	0.000
07/05/2009	23:39:00	0.000	0.000	0.000	0.000
07/05/2009	23:39:30	0.000	0.000	0.000	0.000
07/05/2009	23:40:00	0.000	0.000	0.000	0.000
07/05/2009	23:40:30	0.000	0.000	0.000	0.000
07/05/2009	23:41:00	0.000	0.000	0.000	0.000
07/05/2009	23:41:30	0.000	0.000	0.000	0.000
07/05/2009	23:42:00	0.000	0.000	0.000	0.000
07/05/2009	23:42:30	0.000	0.000	0.000	0.000
07/05/2009	23:43:00	0.000	0.000	0.000	0.000
07/05/2009	23:43:30	0.000	0.000	0.000	0.000
07/05/2009	23:44:00	0.000	0.000	0.000	0.000
07/05/2009	23:44:30	0.000	0.000	0.000	0.000
07/05/2009	23:45:00	0.000	0.000	0.000	0.000
07/05/2009	23:45:30	0.000	0.000	0.000	0.000
07/05/2009	23:46:00	0.000	0.000	0.000	0.000
07/05/2009	23:46:30	0.000	0.000	0.000	0.000

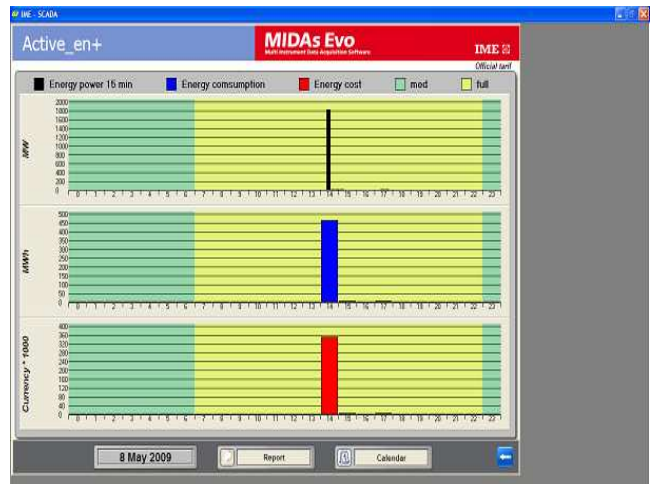
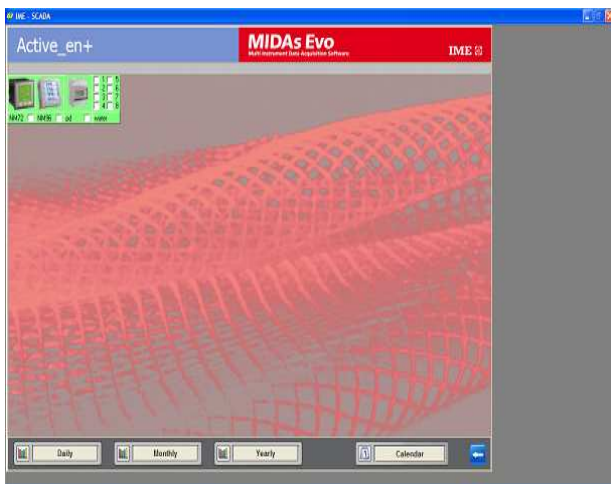
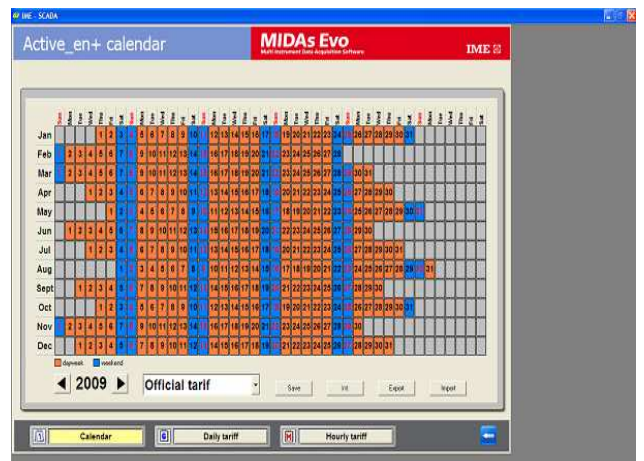
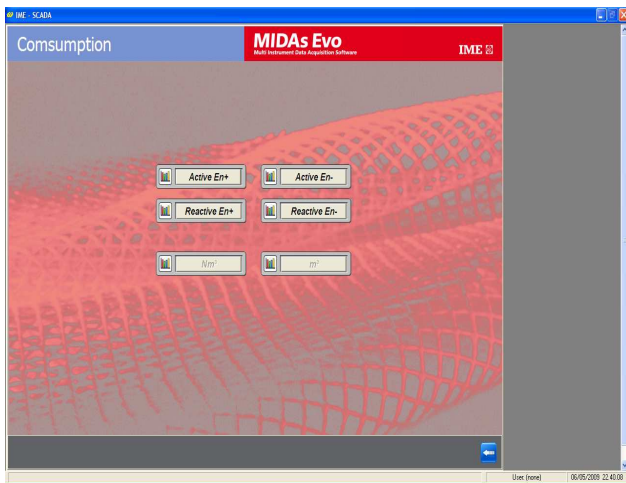
Energy monitoring

MIDAs Evo offers the possibility to analyze the consumptions applying for each type of energy (active or reactive, positive or negative) up to 3 different tariff calendars.

The data are stored without tariff indication but with date and hour only.

The tariff calendars setting up is very simple and immediate and the user has at disposal a device to simulate the consumption costs and decide the best tariff profile.

The consumption analysis can be made each day (with the energy indication collected every 15 minutes) or each month (with energy daily collected) every day, or each year (with energy indication monthly collected) for each device or at the same time for more devices, with the possibility to export the data in 'csv' format.



Connection

The connection to the Multifunction NEMO series and KWHmeter CONTO series networks can be made through different ports :

- RS232 for direct connection of single devices equipped with RS232 output
- RS232 through RS232/RS485 (IF2E002) interface
- Ethernet through RS485/Ethernet (IF2E001) interface

