



vicomo

Virtual control and monitoring of your Menerga systems.
Comprehensive data evaluation, real-time access worldwide.

available third quarter 2015



menerga
a systemair company

Monitoring in the cloud pays off threefold.

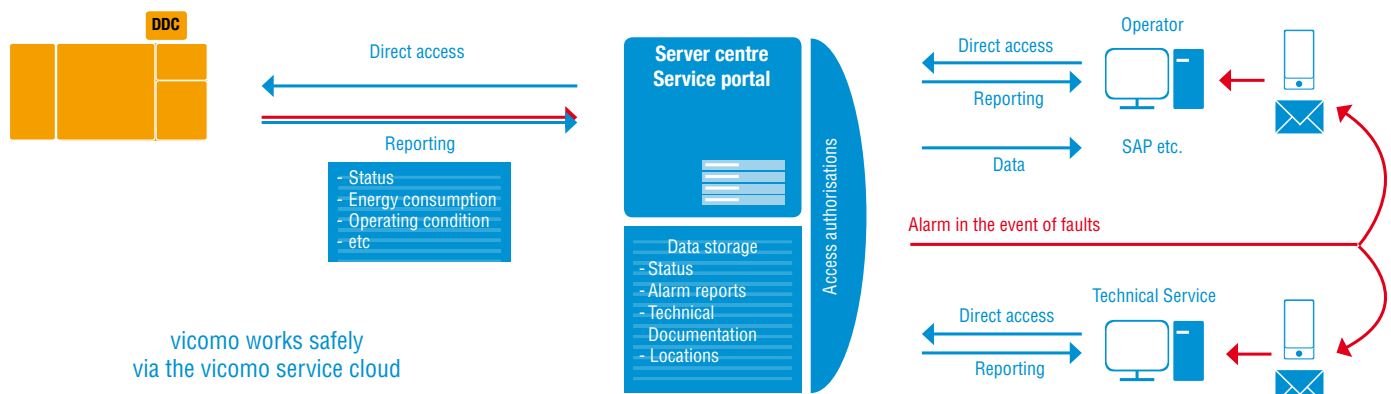
What is vicomo?

vicomo is a control and monitoring solution developed by Menerga, which records important parameters from your Menerga system in real-time and saves them in a cloud-based database. Depending on the system version a complete energy monitoring is possible. In the event of an alarm, the system warns you by message.

Menerga systems are delivered vicomo-ready ex works. The first 12 months of monitoring from commissioning are cost-free. The connection requires a data connection via an analogue modem line or GSM modem connection to our server systems. The required hardware is already integrated in the switching cabinet. Depending on the equipment or requested evaluations, additional hardware such as additional humidity sensors may have to be installed.

vicomo evaluates the following parameters amongst others:

- Filter pressures
- Volume flows
- Temperatures
- Humidity (if present)
- Operating conditions/damper position
- Requirements LPCW/LPHW
- Cooling components (if available)
- Operating hours counter for pumps, fans, compressors and or adiabatics



Advantage 1

Continuous monitoring by the Technical Service

Menerga's Technical Service can evaluate the performance data of your system upon request. The entire system can thereby be permanently monitored, calibrated and optimised. In the event of a fault, the Technical Service also receives a fault message and in many cases can immediately remove faults by means of remote maintenance.

Advantage 2

System control and monitoring worldwide and in real-time

You have access to your system data around the clock and from nearly anywhere in the world – and you can also control the system parameters directly (vicomo plus or above). In the event of alarms, e.g. if filter pressures are exceeded, you can immediately react and, for example, can request the in-house technician to replace the filter.

Advantage 3

Clearly arranged BMS when operating multiple systems

Do you operate multiple systems? Then use vicomo as BMS! vicomo enables a clearly arranged control and management of multiple locations. A map overview guarantees quick access to the individual systems. Evaluations and comparisons between the systems are possible at all times.



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vicomo is preinstalled in every Menerga system ex works – you only need an internet connection. Convince yourself of vicomo by testing the software cost-free in the first year and without any obligations.

After the first year, you can be upgraded to "vicomo plus". If your system is supervised by our Technical Service as part of a maintenance contract, this service is cost-free for you. We can also expand your system to "vicomo spezial",

which enables a complete energy monitoring. For this purpose, we install additional sensors for evaluating further data points. We will make you an individual offer for "vicomo spezial".

Functionality	vicomo	vicomo plus	vicomo spezial
Permanent data comparison with the vicomo portal	✗	✗	✗
Secured access via the portal	✗	✗	✗
Real-time transmission of the data points	✗	✗	✗
Long-term data and alarm reports automatically saved	✗	✗	✗
Secured worldwide maintenance access via the Internet	✗	✗	✗
Messages (email, text message, fax) from the portal	✗	✗	✗
Display/real-time changes of the system functions via vicomo		✗	✗
Use with multiple systems			✗
Map overview in the portal			✗
Receipt of fault signals to dedicated recipients			✗
Efficiency and energy monitoring			✗
	Cost-free in the first year	€180/year (Included in maintenance contracts)	Individual – we make you an individual offer!

Creating a good climate.
For over 35 years. Worldwide.



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