

# DATABASE SERVER



# Database server

## Comprehensive monitoring and analyses require powerful server solutions

- Janitza electronics GmbH offers a powerful server as a complete solution
- Trouble-free and immediate use is guaranteed
- Simple and rapid integration of the pre-configured server into the existing network
- GridVis® Power Grid Monitoring Software is already installed on the database server
- Available databases: Janitza DB, MS SQL or MySQL
- Application of a powerful tower or rack server from Dell
- The Dell PowerEdge server offers high quality and reliability with maximum expandability
- A RAID-10 system with hot-plug hard drives guarantees a high standard of data security



Fig.: Server (tower)

## Guaranteed all-round service

- Access to the database server thanks to Janitza maintenance diagnostics and fault rectification (only with authorisation)
- Rapid diagnostics and rectification of problems possible
- Highest level of security: Use of common remote maintenance solutions with three-stage encryption per industry standards



Fig.: Server (rack)

## For larger projects we currently recommend the following configuration:

- Current Intel processor
- 16 GB RAM
- RAID controller
- RAID 10 with 4 hard drives, 1 TB capacity each
- DVD-ROM drive
- Windows 2008 Server with 5 CALs, 64 Bit (German or English version)
- Installation of GridVis® Power Grid Monitoring Software and the database driver for SQL servers
- MySQL / MS SQL databases should be provided by the client
- The integration of the server into the company's own network must be implemented by the customer's own administration

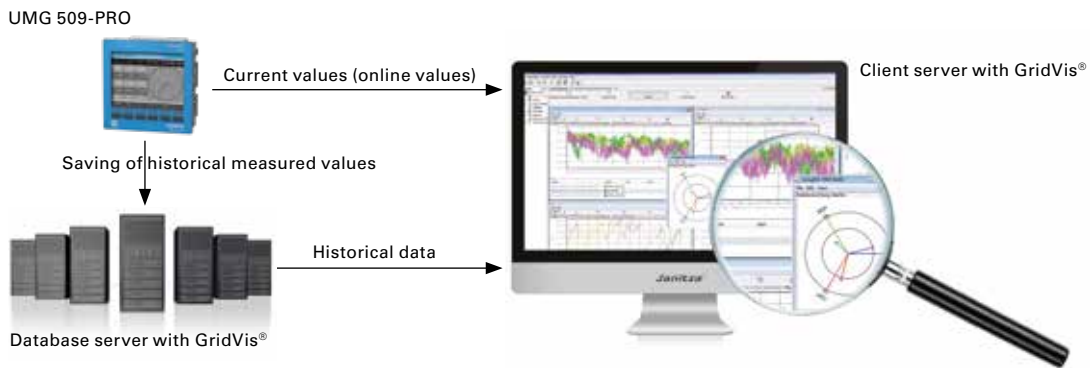


Fig.: The UMG 509-PRO, for example, currently has 6 communication ports. Of these, two are designed as gateways (port 8000) for downstream RS485 devices.

### Areas of application

- With extensive monitoring systems with a large number of measurement devices
- For applications that require a high degree of data security and maximum performance
- With companies whose systems must be scalable and expandable

### Application

- GridVis® runs as a service on the server
- Log-in of a user not required for automatic data logging
- For measured value analysis the client computer accesses the server directly via the network
- Access to measurement data within the database by any number of client systems possible
- Display of online measurement values dependent of the number of ports per device, i.e. visualisation of historical data via the database, online measurement values available direct from the UMG device



## Database server

Product overview		
Description		Item no.
Server (tower)	<ul style="list-style-type: none"> <li>• Current Intel processor</li> <li>• 16 GB RAM</li> <li>• RAID controller</li> <li>• RAID 10 with 4 hard drives, 1TB capacity each</li> <li>• DVD-ROM drive</li> <li>• Incl. mouse and keyboard with german layout</li> </ul>	<b>15.06.352</b>  (Windows version, German)
	<ul style="list-style-type: none"> <li>• Windows 2012 Server with 5 CALs, 64 Bit (German or English version)</li> </ul> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• GridVis® Power Grid Monitoring Software and database driver for SQL server</li> <li>• MySQL / MS SQL databases should be provided by the customer</li> <li>• The integration of the server into the company's own network must be implemented by the customer's own administration</li> <li>• Warranty from Dell GmbH</li> </ul>	<b>15.06.353</b>  (Windows version, English)
Server (rack)	<ul style="list-style-type: none"> <li>• Current Intel processor</li> <li>• 16 GB RAM</li> <li>• RAID controller</li> <li>• RAID 10 with 4 hard drives, 1TB capacity each</li> <li>• DVD-ROM drive</li> </ul>	<b>15.06.354</b>  (Windows version, German)
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Setup package 1 for MS SQL	<ul style="list-style-type: none"> <li>• Install hard drives</li> <li>• Install operating system</li> <li>• RAID configuration (RAID 10)</li> <li>• Install updates</li> <li>• Install MS SQL Server*</li> <li>• Install GridVis®</li> </ul>	<b>51.01.018</b>
Setup package 2 for My SQL	<ul style="list-style-type: none"> <li>• Install hard drives</li> <li>• Install operating system</li> <li>• RAID configuration (RAID 10)</li> <li>• Install updates</li> <li>• Install MySQL Server*</li> <li>• Install GridVis®</li> </ul>	<b>51.01.019</b>
Setup package 3 for JanDB	<ul style="list-style-type: none"> <li>• Install hard drives</li> <li>• Install operating system</li> <li>• RAID configuration (RAID 10)</li> <li>• Install updates</li> <li>• Install JanDB</li> <li>• Install GridVis®</li> <li>• Install RTP user</li> </ul>	<b>51.01.023</b>

\* The MS SQL or MySQL database should be provided by the customer. GridVis® Power Grid Monitoring Software and database drivers are separate items. The integration of the server into the company's own network must be implemented by the customer's own administration. Hardware warranty from Dell GmbH.



Fig.: Server (tower)



Fig.: Server (rack)

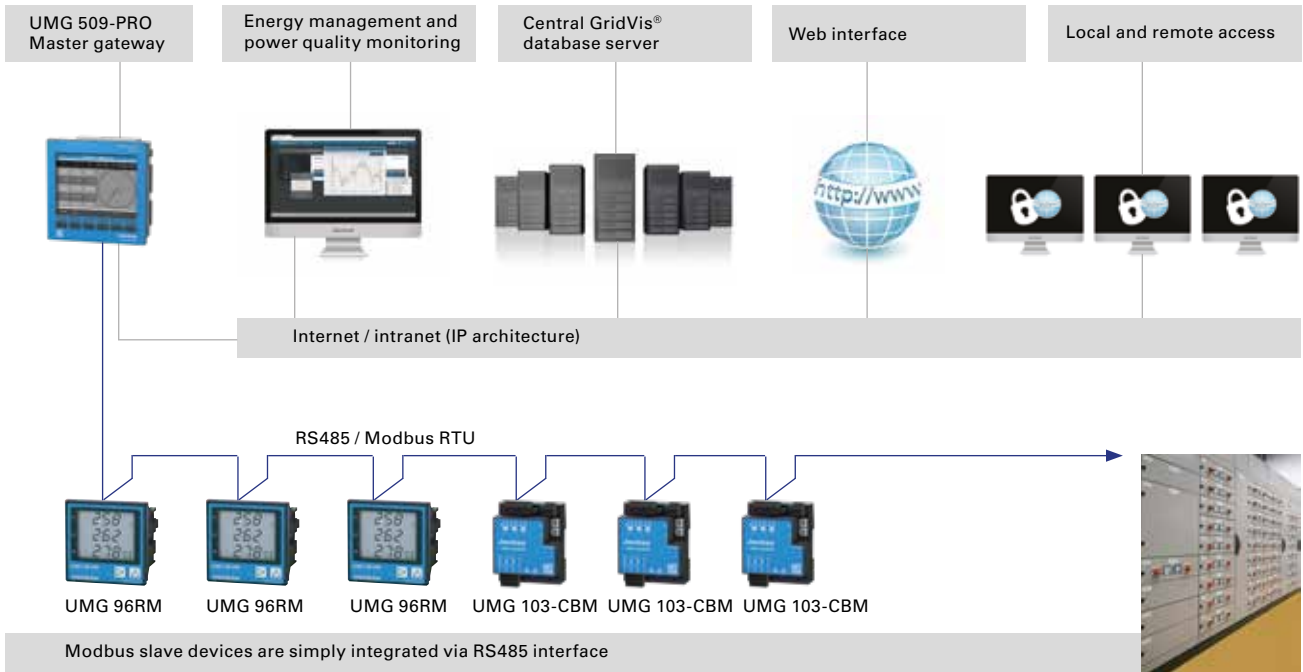


Fig.: Master-Slave communication architecture