



**Database technology for the
QMSOFT® gauge management system
"QM-MANAG" Release 5.0**

(Rel. 06.09.2010)

Contrarily to the previous version, which supported a so-called Desktop database (Paradox format, access via Borland Database Engine), the new version of the QMSOFT® system uses a completely different technical base in the form of a genuine client/server database structure (C/S). With this technology the clients, i.e. the workplace computers, access a software referred to as SQL-Server (operating on the server computer) exclusively via a TCP/IP network connection.

Unlike Desktop databases, where the application programs write directly on the database files, in a C/S environment the access to the contents of the database is possible solely via the SQL-Server software. Thus, application programs do not have access anymore to the databases or files contained in them. Moreover, security is increased since the client computers do not need a drive connection to the server computer, i.e. since access via Explorer or other file managers is no more necessary. Even in case of a crash of the client computer, the transaction management of the database system ensures that neither the database nor the data are being damaged. Other problems connected to the previous version of QMSOFT® like the removal of lock files or the sharing of NET files are a thing of the past!

The updated version of the QMSOFT® system cooperates with various Client/Server-SQL database systems:

- As our "home system" we favor the "Firebird" SQL server (Open Source) which is free of license costs and is delivered with QMSOFT®. This system offers a very high stability and a remarkable runtime speed and is advisable especially for QMSOFT® users who are less familiar with the Client/Server system because it causes almost no administrative work other than the obligatory data saving. The communication between Firebird-client and Firebird-server is performed exclusively via a TCP/IP port.
- Besides, QMSOFT® currently supports the SQL database systems "Firebird" (Open Source product) and MS-SQL (manufacturer: Microsoft).

Using QMSOFT® as a "single user" workplace system

Employed as a single workplace system, QMSOFT® (or the modules contained in it, like gauge management programs or programs for the inspection of pin gauges etc.) shares the resources of the computer with the C/S-SQL database system. For this purpose, the database systems mentioned above dispose each of a locally used Desktop version of the SQL server in order to smoothly carry out installations of this kind. However, you should be aware of the fact that at this point you are facing the same security problems as with the previous version because the database is located on the desktop computer. So, should the desktop computer crash, both the QMSOFT® application program and the local SQL server may be affected, which results in a higher risk of data loss or damage.

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