



Software framework LINERECORDER

# LR SMARTOBSERVER

## Condition monitoring

## Energy monitoring



Application software



Condition monitoring  
of machines and installations

Analysis of the  
energy consumption

Organisation of maintenance

Quality assurance of the  
produced products

Alarm-  
manage-  
ment

Live  
status

Analysis

ERP  
connec-  
tivity

### Scope of services

- Customer-specific live status display
- Limit value management - tabular and graphic representation incl. trend display
- Alarm management for:
  - maintenance
  - warning and control limits
  - alarm escalation
- Process value analysis (correlation)
- Implementation in a web server or installation on a machine

### Customer benefits

- Process reliability of the installations
- Optimisation and reduction of the energy consumption
- Organisation for preventive service and maintenance
- Favourites management



# LR SMARTOBSERVER

## Performance and system requirements

### System bundles

- LR SMARTOBSERVER CE
- LR SMARTOBSERVER Express
- LR SMARTOBSERVER

Database system	Data throughput	Hard disk requirement	System requirement	Max. amount of data	Additional costs	Expert know-how
LR SMARTOBSERVER CE SQL server Compact Edition	50 data records per second	SSD	DualCore CPU 2,5 GHz 4 GB RAM	512 MB	none	no
LR SMARTOBSERVER Express SQL server Express	75 data records per second	SSD	QuadCore CPU 2,5 GHz 8 GB RAM	10 GB	none	Databases
LR SMARTOBSERVER SQL server Full version	100 data records per second	SSD/HDD	HexaCore CPU 2,5 GHz 16 GB RAM	2 TB HW dependent	project dependent	Databases and network technology

### All variants can be updated.

#### System requirements

- Windows 7 SP1, Windows 8.1, Windows 10, Windows Server 2008 R2 SP1, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016
- Graphic card 1 GB, DirectX 10.1 compatible graphics
- Web browser Chrome, Firefox, Edge, Internet Explorer 11 or higher

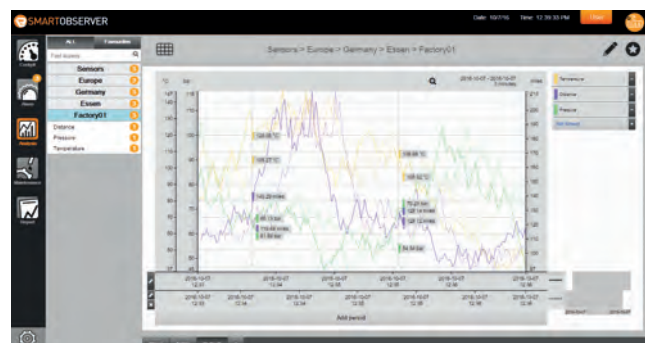
- LR SMARTOBSERVER Express & Server: Microsoft SQL Server 2008 R2 SP1, Microsoft SQL Server 2012, Microsoft SQL Server 2014, Microsoft SQL Server 2016

#### Technical data

Description	Order no.
LR SMARTOBSERVER CE (Download) Software for online visualisation of measured values for the connection to an IP address Database MSSQL CE incl.	QLS010
LR SMARTOBSERVER CE (Supplied on USB flash drive) Software for online visualisation of measured values for the connection to an IP address Database MSSQL CE incl.	QLS015
LR SMARTOBSERVER Express (Download) Software for online visualisation of measured values for the connection to up to 10 IP addresses	QLS020
LR SMARTOBSERVER Express (Supplied on USB flash drive) Software for online visualisation of measured values for the connection to up to 10 IP addresses	QLS025
LR SMARTOBSERVER Software for online visualisation of measured values Licence per measuring point Basic module server application	on request ifm datalink



Cockpit display



Analysis with value correlation

We reserve the right to make technical alterations without prior notice. · 02/2017

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