

Software bus LabMap[®]

Increased global competition forces manufacturers of products from all technical fields to guarantee a high product quality for a long period of time. At the same time it is necessary to minimise production costs.

In order to be able to meet all these requirements, online data acquisition and -processing are of increasing importance in distributed automation systems. During production as well as in later tests and in quality control a large number of individual work steps must be parameterised, coordinated, synchronised and visualised via networks. Self-sufficient intelligent sensors, actors as well as process control units are connected with the corresponding operating- and monitoring units (human-machine-interface).

All bus systems, network protocols, visualisation software and database systems presently available on the market can be linked here. This means new demands on automation technology.

The reliability of an automation system does not suffice to guarantee this complexity and variety. The engineering effort for start-up, operation and maintenance must be reduced dramatically.

The software bus LabMap[®] represents a neutral level (intermediate level), in which the individual software bus units (intelligent sensors, actors, process control unit, MMI) are represented by variables. The special features of each unit such as measuring ranges, limit values, units, data types and data acquisition like cyclic, on value changed or on request etc. are configured only once during installation. Thus there is no on the spot programming necessary. New units can be integrated in this complex network through simple configuration of new variables. For this purpose there is a library at the interfaces than can be activated in the sense of plug and play.

Modularisation through LabMap[®] thus fulfils the requirements of a modern automation system. In addition LabMap[®] offers:

- maximum reliability
- easy installation
- easy integration in existing systems
- low operating costs
- teleservice capability
- Quick isolation of faults in the application level thanks to modular system design

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Plug & play in automation

It's a short way
from measurement to monitoring & control with LabMap[®]



LabMap[®] provides a flexible infrastructure for distributed data acquisition. The data can be acquired from different sources on different nodes of the network.

Additional characteristic features:

- Decoupling the application level from the hardware
- Integrated support of physical units
- Data logging
- Level monitoring
- Online calculation channels

Reducing costs with LabMap[®]

- Very short installation time
- High grade extensibility
- Excellent reliability
- Minimal engineering effort
- Minimal maintenance costs
- Costs-saving in the maintenance area by internet based monitoring and control.
- Quick isolation of faults in the application level thanks to modular system design