

Hardware and software development



At the press of a button your process plays the right music



Sophisticated solutions for process automation in the chemical industry!

Sophisticated automation

Our chemical process concepts always contain technically meaningful and at the same time scientifically optimum solutions. We benefit from our experience in programming control systems, in the development of micro processor systems and in the conception of data banks and networks.

Our features

The right assembly know-how for sophisticated automation solutions
More than 30 years service in the chemical industry

Integral problem recording for optimum technical and scientific solutions
Input of reliable software and hardware components
High quality awareness, characterised through projects carried out in the pharmaceutical industry
Structured development run
Where applicable, the latest technology





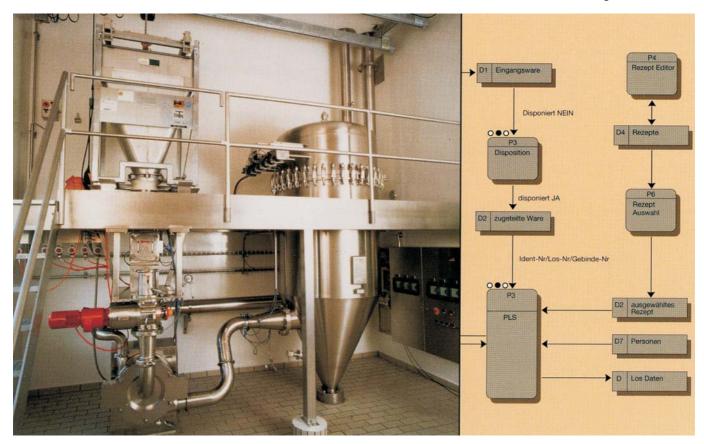
Even difficult problems are not insurmountable !

Our achievements
Engineering bases and preliminary studies
Recipe controls for chemical production
Data banks / management of process data and long-term archiving
Visualisation of installation conditions
Material tracking and personnel identification
Networking of control levels, process system levels and product monitoring
PLC programming, real time recording

Development of electronic hardware, design and testing of prototypes
Registration for quality control
Support for qualification and validation of systems used (FDA approval)

Structured sequence of events

Our development works in accordance with a sequence defined in quality management. This defines which documents need to be generated by when. Consequently you can keep yourself continuously informed about the development position and influence the rest of the run during reviews.





Systems and Languages

Computer / CPU systems

VAX PC PLC Motorla µP Intel µP

Operation systems

VMS Windows (3.11, 95, 98, 2000, NT) QNX

Programme languages

Pascal Portal Visual Basic C/C++ Modula 2 SQL Assembler HTML

Design tool

System-Architect

Data Bank

Access PISA Oracle

Process control software/tools

FIX/DMACS (Intellution) Sattline

Computer networks

Field bus, Profibus Ethernet Token Ring DecNet Novel-Netware Internet



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Realized Projects

Process control systems

Textile dyestuff Pharmaceutical bulk production In-process analysis laboratory

Pilot installations

Polymer chemistry Dyestuff chemistry Photo chemistry Energy saving crystallisation procedure

Automatic laboratory reactors

Active pharmaceutical substance development Dyestuff development Polymer chemistry Reaction calorimetry Peptid syntheses Bio catalytic converter test installation

Logistics and information

Material flow and monitoring Personnel authorization and registration Central data recording with long-term archiving

Miscellaneous

Dosage system Automatic distillation Micro processor subsystems Remote control and remote monitoring Thermal analyses instruments

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