Automation
Engineering and implementation of process control systems
Hardware and software development

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

SYSTAG
automatically better
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
  - Motorola 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

### 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