



Process control and automation

Niro Process Control
Department



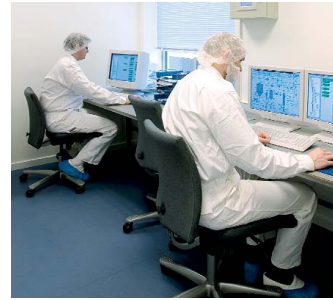
Process control and automation

For over 70 years, Niro has supplied process plants and equipment to the dairy, food, chemical and pharmaceutical industries. We specialize in solutions for processing that involve drying, evaporation, feed pre-treatment and powder handling to produce powders, liquid concentrates, and agglomerated and granular solids. Control and automation is always a vital part of this type of processing and with decades of experience in the field, Niro has developed well proven control and automation systems that provide safe, flexible operations with full visibility.

Niro offers a wide selection of automation services ranging from instrumentation to complete automation solutions. Our focus on crucial factors such as product efficiency, flexibility and traceability enable cost-efficient, scalable solutions that optimize production processes. Attention paid to maintenance and plant performance during all phases of a project—from initial design development to installation and future expansion—ensures reliable, smooth-running operations always compliant with industry norms and standards.

In a constantly changing production environment, Niro carefully selects the newest technologies that support the evolving needs of our customers—technologies that enable seamless integration of our solutions into existing platforms and systems and also afford maximum product flexibility. Along with our training service, customized support and remote and local maintenance, our aim is to provide automation solutions that remain sustainable long after project implementation.

Niro Process Control Department provides solutions driven by our customers' needs. Our knowledgeable and experienced project teams deliver automation solutions on time, within budget and in any location. By selecting Niro as your partner you combine the best of process engineering with the latest technology automation systems.



OUR SCOPE OF SUPPLY INCLUDES:

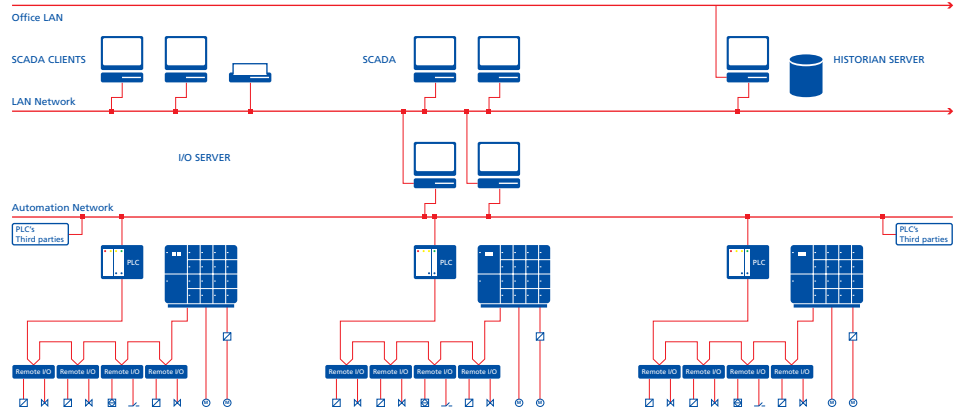
- PLC, SCADA and HMI programming and development
- Manufacturing execution systems (MES)
- Instrumentation and industrial networking
- Backup, data logging, reporting and redundancy systems
- Electrical design
- Hardware and instruments
- Risk assessment and failure-mode effect analysis (FMEA)

OUR PROJECTS COMPLY WITH INTERNATIONALLY RECOGNIZED NORMS AND STANDARDS SUCH AS:

- Machinery Directive
- Low Voltage Directive (EN60204-1)
- ATEX Directive
- EMC Directive
- S88 Batch Control and S95
- FDA 21 CFR part 11
- Qualified acc. to GAMP (V model)
- Functional Safety acc. to EN 61508



Control system, overview

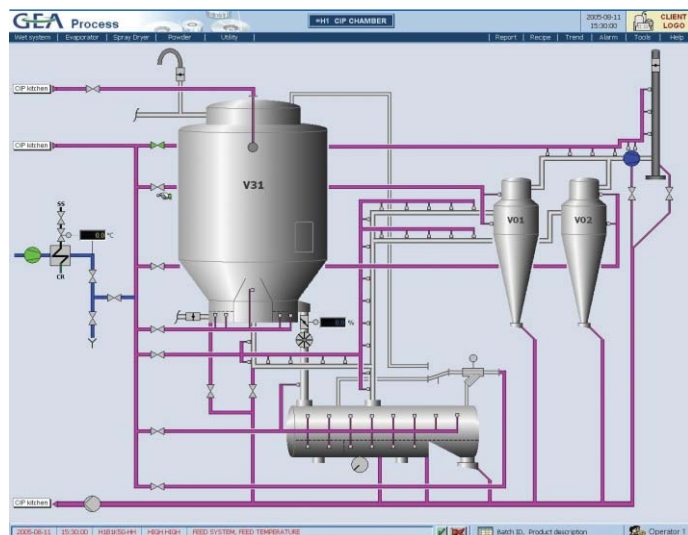
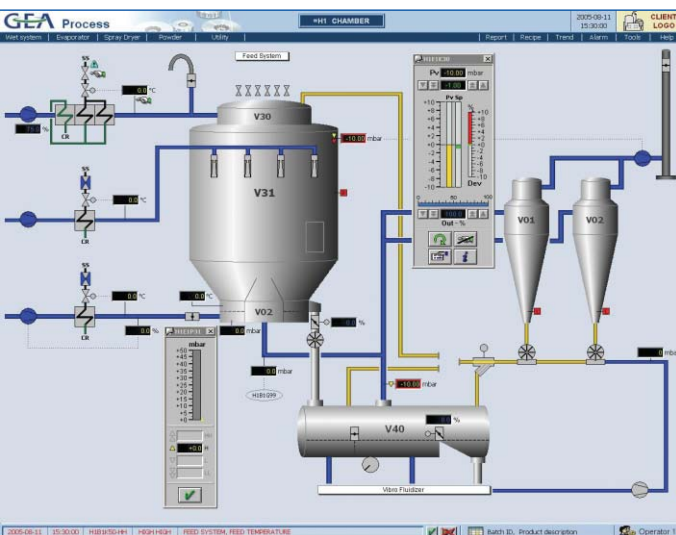


NiroWare™

A control system must give operators full visibility throughout the entire plant to ensure homogeneous and reliable production at all times. To achieve this, NiroWare™ historian logging, tracing, tracking and reporting software is an integrated part of our control system. Product tracing and tracking is more important today than ever, and the configurable system enables successful tracking of product batches.

While the SCADA human-machine interface allows operators to view the state of any part of the plant equipment, alarms automatically detect abnormal conditions in plant equipment allowing operators to intervene and keep things running smoothly.

As the source for all your process and automation needs, the NiroWare™ Control System offers you security and confidence thanks to its well-tested tailor-made function blocks and basis in standard software. NiroWare™ Control Systems ensure a high reliability and minimum of engineering in order to suit the Niro processes.



Member of the

...global GEA Group

Niro is a world leader in industrial drying, with spray drying, freeze drying, and fluid bed processing as core technologies. The Niro companies are part of the Process Engineering Division of GEA Group.



A company of GEA Group

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