

PROCESS CONTROL TECHNOLOGY



INNOVATION

ENGINEERING

OPTIMIZATION

Engineering: Electrical and Instrumentation

Our service ...

We are your expert partner for the design, execution and implementation of your project's electrical and instrumentation systems.

We perform all process control work for your project, including:

- sensors
- actuators
- wiring
- buses
- electrical rooms and control rooms
- power supply and distribution
- low-voltage switchgear
- motor control center.

We assume responsibility for the entire project from concept development to successful commissioning.

In the case of pharmaceutical production facilities requiring validation, our design and engineering processes together with the accompanying documentation meet all requirements for a qualified process control system.

Our services include:

- conceptual design
- instrumentation concept on the basis of P& ID
- risk analysis, safety concept and redundancy concept
- cost estimation
- equipment selection
- detailed engineering
- installation details
- lightning protection
- short circuit analysis
- intrinsic safety calculation

- procurement
- construction supervision
- functional testing
- support during cold-commissioning and hot-commissioning
- documentation, including all required certificates
- co-ordination of related disciplines, e.g. process analyzer technology, building automation systems and communications systems



Bayer Technology Services
Powering Your Performance

We manage the interfaces to:

- other project disciplines (in particular process engineering, Civil, Structural Architectural, mechanical and piping)
- suppliers
- contractors

... is your gain.

You will receive a complete process control system/technology for your plant from a single source, instrumented with the best-suited and most economical components on the market while considering the total cost of ownership.

In case of production facilities requiring validation, qualification of the process control system is completed upon turn over of the facility.

Our approach

On the basis of our many years of experience with the design and implementation of process control systems/technology, we have:

- a good understanding of the requirements of process engineering and process control
- extensive knowledge of the market for process control components
- thorough knowledge of technical regulations and codes (e. g. IEC guidelines and explosion proof regulations)
- expertise in modern field communication (HART, Remote I/O, field buses).

We make extensive use of state-of-the-art CAE tools (e. g. Planets, SmartPlant® Instrumentation / INtools®) and specification sheet databases. We can draw upon established engineering standards and procedures, e. g. for function testing.

Our project management capabilities have repeatedly proven effective in a number of projects and are an important prerequisite for ensuring that your project will be completed on time and within budget.

References

- Many years of experience working on investment projects around the world.
- Experience in collaborating with suppliers and contractors.

