



POLCID[®] master process control system

Polysius



ThyssenKrupp

There are numerous »all-round« process control systems on the market. However, industrial experience has shown that many of these »solutions« actually cannot cope with the complex automation tasks of production plants.

Based on our long-time automation knowhow and extremely broad knowledge of processes and equipment, and utilising an evaluation of the market's current requirements, Polysius developed an automation product that is perfectly tailored to the specific needs of the cement, lime and minerals industries.

This is configured as an open automation solution providing both well-trying and innovative functions implemented with state-of-the-art computer technology.

POLCID® – the master process control system for the cement, lime and minerals industries

The POLCID® master process control system combines comprehensive process engineering knowhow and ultramodern hardware and basic software from the world's leading manufacturers of process control system components, creating an optimum system structure for our client industries.

By using the POLCID® system for process control and monitoring you therefore profit from product quality, flexibility, and permanently stable production flow of the very highest standard.

Planning security, investment protection, continuity and service with process knowhow are further benefits.

POLCID® includes ready-made interfaces for the sub-control systems that are typical for the industry, such as conveyor scales,

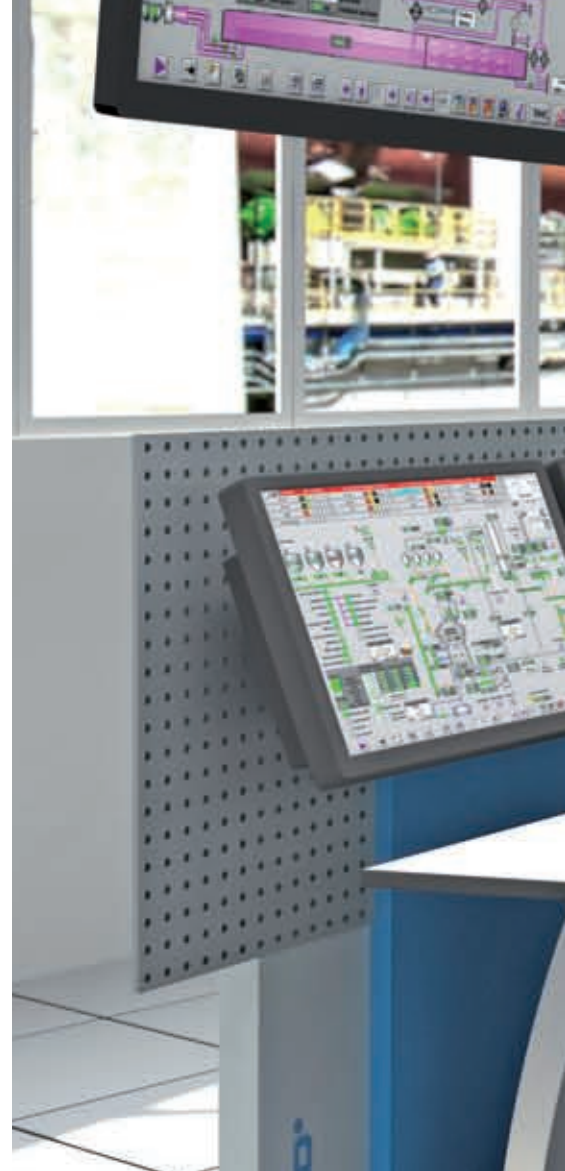
kiln firing system and blending bed control systems.

Standardised, industry-specific interfaces for the connection of ERP, management, maintenance and dispatch automation systems are also integral components of the POLCID® system.

Being of consistent modular design, POLCID® is predestined for individual configurations ranging from a single plant section to complete production lines.

The system's modular structure and open platform assure practically unlimited adaptability, so that it is already optimally prepared for tomorrow's requirements.

Upgrades are an integral part of the Polysius service concept and are still possible years later. They require only a short stoppage or possibly no stoppage at all.



Modernisation of existing master control systems

To enable users of existing POLCID® master process control systems to profit from the advantages of the latest generation, Polysius offers DCCONVERT, a tool for automatic conversion of existing interlock programs and databases to the latest basis software versions.

This tool is able to automatically convert PC-based POLCID® NT applications to new software versions and programming environments.

The automatic conversion makes use of the existing structure and is very quickly implemented. It demands no time-consuming re-engineering and no subsequent recommissioning, since plant functionality remains unaltered.



Advantages for the process operator

- ✓ User-friendly screen and menu organisation employing Windows technology
- ✓ Clearly arranged displays for plant sections, trends, controllers, alarms, messages and logs
- ✓ Start/stop actions, setpoint inputs and object-related status information in the plant display
- ✓ Windows-typical operation with mouse, pop-up menus, face plates and toolbox
- ✓ Ergonomic control and printer desks with attractive control room design
- ✓ Screens in all well-established formats and sizes (e.g. 52" LCD large-format screen 16:9 format or 24" standard monitor 16:9 / 16:10 format)
- ✓ Workstations with universal or restricted access (configurable)

- ✓ »Multi-language« (UNICODE)
- ✓ Unique, classifiable process alarms

Advantages for the system engineer

- ✓ Available for the basic software and hardware components of different manufacturers (ABB, Rockwell, Siemens)
- ✓ Windows-based software
- ✓ Client-server structure on the control level
- ✓ Programmable logic control
- ✓ Field bus technology
- ✓ Uniform and consistent database
- ✓ Standard interfaces (DDE, OPC, OLE, ODBC, etc.)
- ✓ Central engineering work station
- ✓ Graphic controller programming
- ✓ Redundancy options
- ✓ Ready-made program software modules for most sub-control systems used in the cement, lime and minerals industries

- ✓ System library for plant displays
- ✓ Security access control and recording of all activities
- ✓ Conventional I/O systems combined with smart MCC technology

Advantages for plant management

- ✓ Direct access to current and historical process information
- ✓ Freely configurable logs/protocols
- ✓ Decentral management workstations
- ✓ Data export to Office programs
- ✓ Process optimisation modules
- ✓ Factory automation from a single source
- ✓ Optimum update solutions for older POLCID® PCS versions