

Components and systems for safe heating equipment with PROFIBUS-DP

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- Integrated safety functions (protective system)
- Information gain thanks to the networking of information
- Continuous data communication from production to corporate management level
- Cost savings by reducing planning costs, cabling and I/O modules for the PLC
- Extensive diagnostic functions
- Investment security thanks to simple extension, changes and unit replacement

Management level

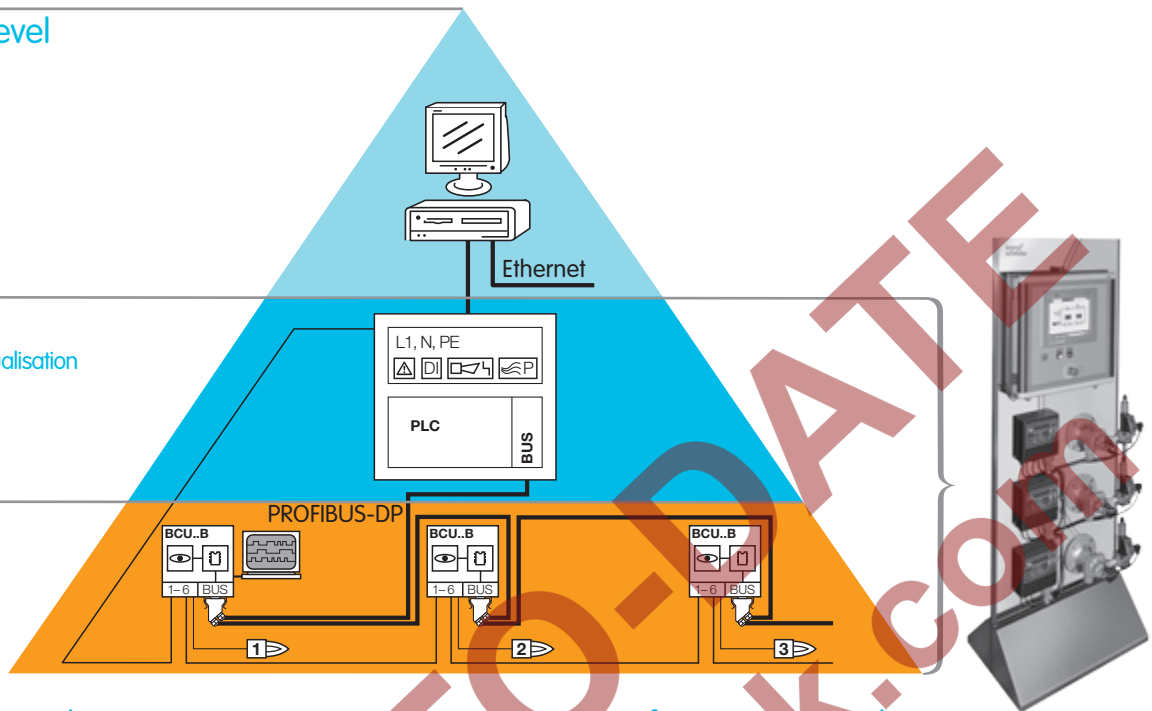
Data management

Control level

Process control and visualisation

Field level

Data recording



Application

Heating equipment process control covers control, regulation, bus interfaces and visualisation as well as the safety-related protective system providing safety functions to release or switch off the fuel supply. Burner control and monitoring are ensured by BCU..B1.

The components spread out over the system require bridging of large distances for signal processing. PROFIBUS-DP is a standardised, worldwide fieldbus system. An additional information gain is made possible thanks to the networking of information.

Cost savings can be achieved compared to conventional wiring by reducing planning, installation and commissioning costs. A wide variety of tools are available on the market for bus diagnosis.

Components and control system can be optimally matched and therefore provide the basis for a horizontal and vertical integration – from the field level using PROFIBUS-DP via control and visualisation using Ethernet TCP/IP to the IT world of the management level – simple, open and continuous. Investment security is guaranteed thanks to simple extension, changes and unit replacement in the system.

Functions of process control

Control and regulation functions

- Operation using a touch screen
- Visualisation
- Alarm history
- Voltage supply
- Fan control
- Temperature control
- Pulse control
- PROFIBUS-DP master
- Ethernet TCP/IP interface

Functions of the integrated protective system

- Safety interlocks:
 - Emergency stop
 - Gas pressure monitoring
 - Air pressure monitoring
 - Safety-relevant limits
- Tightness control
- Pre-purge

Burner control unit BCU..B1

- Burner ignition
- Burner control
- Flame control
- Communication via PROFIBUS-DP

Detailed information on this product

www.docuthek.com → Direct access

Search term: PROFIBUS-DP

Kind of document: Technical information

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