

SPECTORcontrol – The Operating, Control & Visual Display System

Description

The system SPECTORcontrol consists of a 6.5" or 10.4" colour infrared touch screen PLC, the operating system WIN CE4.2, interfaces for Ethernet, Serial RS 232, CANopen, PS/2 keyboard, Profibus DP (optional), digital/analog input and output terminals and the software.

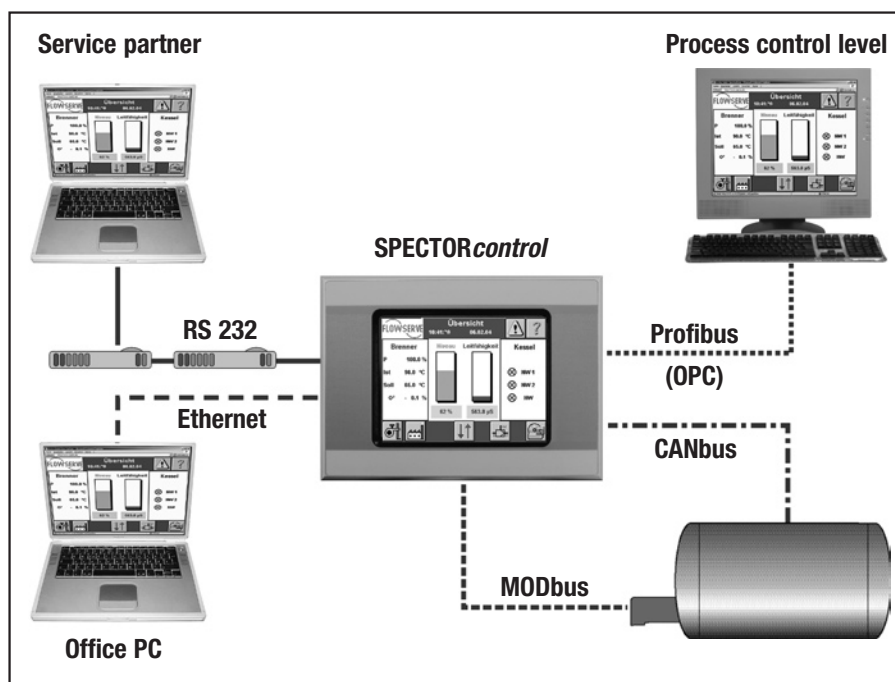
Function

The SPECTORcontrol system integrates control and operating functions of the individual SPECTOR devices in one PLC, which means that stand-alone components such as NRR 2-40, NRS 1-42 and URB can be dispensed with. Apart from the actual control tasks performed by SPECTOR equipment, additional control functions (plus a three-element control function) can be implemented by means of the five integrated control systems. The advantage of this new operating, control & display unit lies in the standardised graphical user interface: The boiler attendant does not have to adapt himself to different user interfaces. Thanks to the smart input/output terminals (2 x analog input/output, 10 x digital input/output) mounted on site, the data are transferred from the PLC to the final controlling element via a BUS line. This approach offers considerable cost advantages, also with regard to boiler equipment. The interface permits the technician to query not only data concerning water level and conditions (as detected by SPECTORbus equipment) but also data from various burner controls (LAMTEC, HIMA, SIEMENS, HAMWORTY) and to integrate the data into the control functions or to visualise them. All operating data, controller settings etc. can be sent via Ethernet, modem etc. to service partners (remote servicing) or higher ranking control systems where parameters can be set, too.

Visual display of operating data

Apart from various control tasks Spectorcontrol offers a wide range of software solutions for the visual display of water and burner data. The standard package comprises:

- 5 freely selectable trend graph pairs
- 5 quantity protocols
- 5 maintenance protocols for freely selectable units
- Malfunction lists

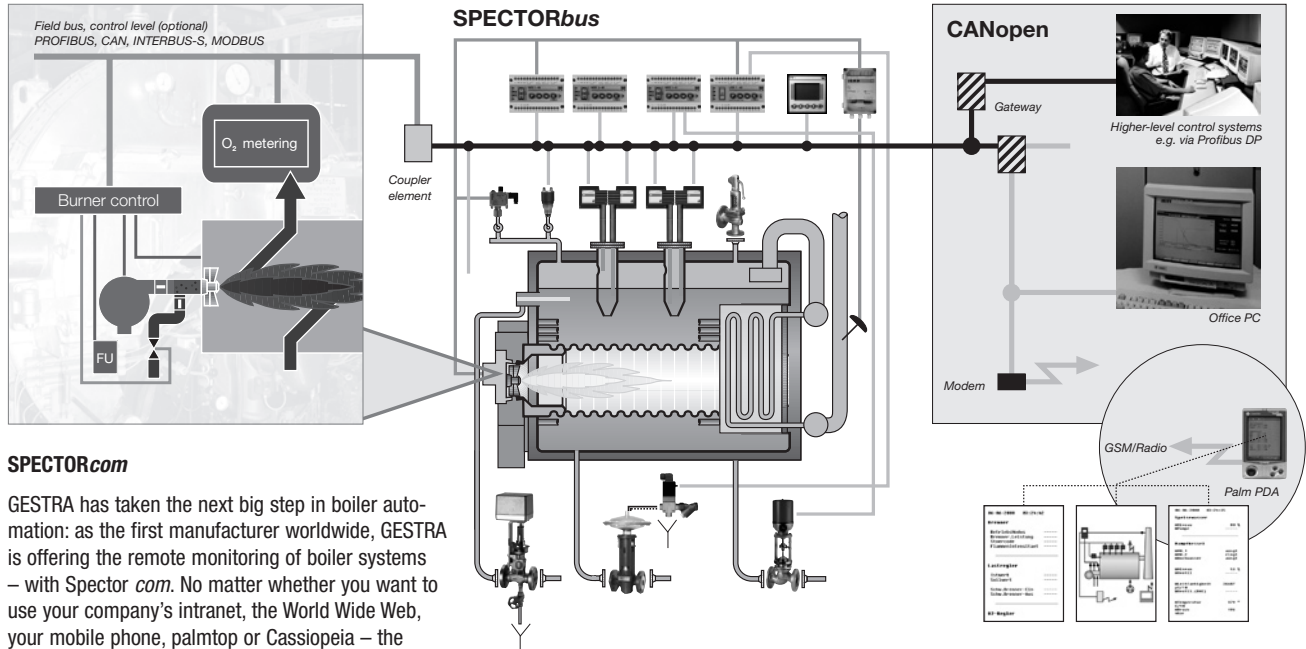


Type

SPECTORcontrol Infrared Touch PLC
incl. 2 DE/DA, 10 AE/AA, software

SPECTORcom/control Control the Controls

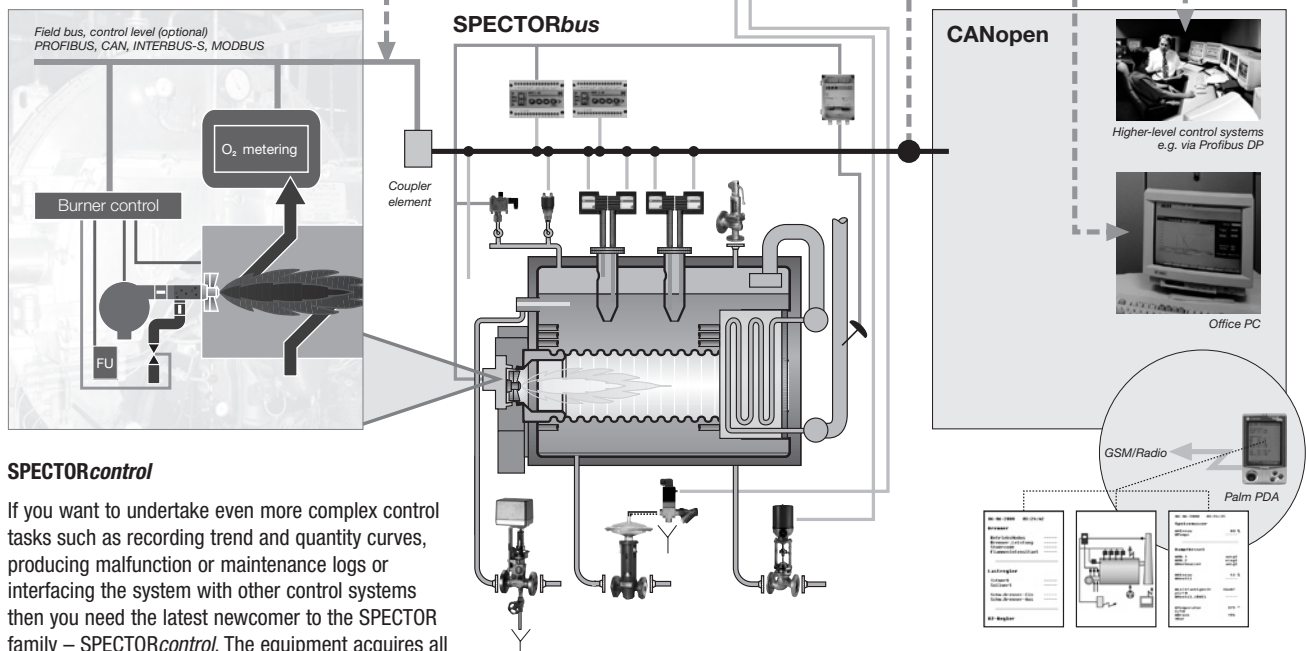
SPECTORcom via Gateway's



SPECTORcom

GESTRA has taken the next big step in boiler automation: as the first manufacturer worldwide, GESTRA is offering the remote monitoring of boiler systems – with Spector *com*. No matter whether you want to use your company's intranet, the World Wide Web, your mobile phone, palmtop or Cassiopeia – the current operating data are available anywhere, any-time. Malfunctions can be detected and remedied at an early stage. SPECTOR*com* – another milestone on the road to increased operational safety.

SPECTORcontrol



SPECTORcontrol

If you want to undertake even more complex control tasks such as recording trend and quantity curves, producing malfunction or maintenance logs or interfacing the system with other control systems then you need the latest newcomer to the SPECTOR family – SPECTOR*control*. The equipment acquires all measured values arriving from the electronic sensing units and relays them to the control centre. There the incoming data are combined in order to establish higher-level statements which are displayed on a

colour monitor. Pressure, temperature, conductivity etc. will be controlled automatically.