

Controller

Compressor Controller

Internal Compressor Controller SIGMA CONTROL 2



Integrated intelligence:

KAESER Compressor's revolutionary modular concept takes compressor controllers to the next level and beyond. Welcome to the world of SIGMA CONTROL 2

One size fits all

The SIGMA CONTROL 2 features a highly flexible modular design, yet its standard construction means that this versatile control system can be matched to suit the needs of any rotary screw compressor or rotary blower from KAESER KOMPRESSOREN's extensive range. Comprising a main control unit and separate input/output modules, this modular concept therefore enhances communication and maintenance-friendliness.

Integrated web server

The SIGMA CONTROL 2 is equipped with its own web server, making compressor status visualisation possible via Intranet / Internet. Operational data and maintenance and alarm messages can therefore be viewed, with password protection, from any PC running a standard Internet browser. This feature consequently simplifies operation and maintenance, for example.

Security with RFID

The SIGMA CONTROL 2 provides high level security with its integrated RFID (Radio Frequency Identification) functionality. Not only does this technology ensure secure log-in for users and/or KAESER service engineers, but also safeguards the system against unauthorised changes or operation. Manufacturer provided passwords are no longer required.

The intelligent way to save energy

With multiple compressor control modes, a timer and base-load sequencing function, compressor energy consumption is now lower than ever before. The precision electronic pressure sensor enables exact switching differential selection to meet requirement thereby ensuring further savings.

Controller systems

- 1.Modular design comprising control unit, input/output modules, network components and web server.
- 2.Designed for use with Kaeser rotary screw compressors.
- 3."Traffic-light" LEDs for at-a-glance operational status.
- 4.Plain text display.
- 5.30 selectable languages.
- 6.Fully automated monitoring and control.
- 7.Selection of Dual, Quadro, Vario, Dynamic (dependent on compressor size) and continuous control as standard.
- 8.Timer.
- 9.Base-load sequencing function when operating two compressors.
- 10.Web server with operational data remote display.

Hardware

- 1.Advanced processor hardware.
- 2.All components designed for industrial operating conditions.
- 3.Graphical display: Graphs showing pressure and compression temperature.
- 4.LED indicators and tactile membrane keys.
- 5.Real-time clock battery buffered.
- 6.Precision electronic pressure transducer.

Control cabinet

- 1.Dust & water-resistant, IP 54.
- 2.Input/output modules with confusion-proof plug-in connectors for the signal sensor connection cable.
- 3.Terminal strip for additional floating contacts.

Interfaces

- 1.SD card slot for updates and long-term storage of operational data.
- 2.USS bus for frequency converter.
- 3.RFID reader (Radio Frequency Identification).
- 4.Ethernet.
- 5.Slot for communications modules.

Options, accessories

- 1.Profibus DP-VO.
- 2.PROFINET IO.
- 3.Modbus TCP.
- 4.DeviceNet.
- 5.Modbus RTU.

Web server

- 1.Control panel and menu structure visualisation, e.g. event history and display of graphs.