

BORSIG ZM COMPRESSION ZM

BORSIG BlueLine



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Process Control, Safety and Monitoring for your Compressor

BORSIG ZM Compression GmbH offers a highly available BORSIG BlueLine automation system with scalable redundancy and up to SIL3 (safety integrity level) for industrial use.

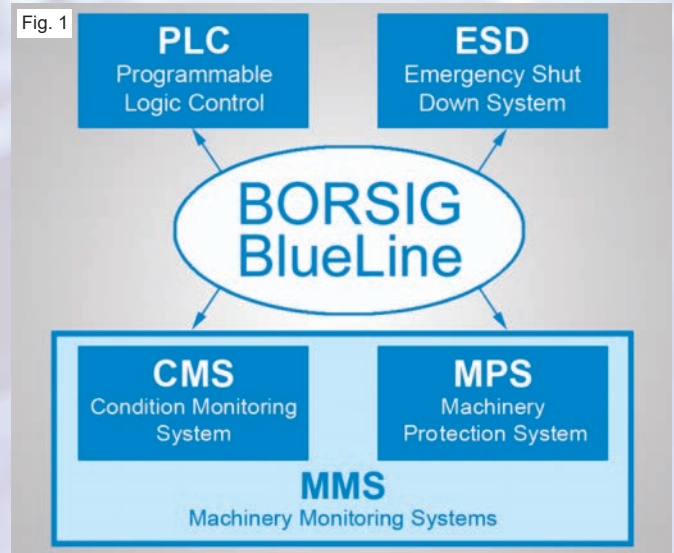
The system combines control system, machine protection and machine monitoring for reciprocating and centrifugal compressors by BORSIG ZM as well as by other manufacturers. The BORSIG BlueLine system family is the basis for integrated SIL3 automation. Safety-related communication and processing with, if required, multiple redundancies enable the efficient distribution of complex applications and the integration of several systems.

In addition to regular automation, modern plants require an increasing amount of certified safety functions. BORSIG BlueLine systems allow the mixed operation of certified safety components (up to SIL3) with standard automation systems in one computer system.

Features of BORSIG BlueLine:

- Highest safety, certified up to SIL3 (IEC61508, IEC61511, IEC62061), PL e and CAT 4 (ISO 13849, DIN 954) for open-loop and closed-loop control
- Highest system availability by up to quadruple redundancy and hot swap component replacement
- Hardware diagnostics of all I/O signals with error detection
- Mixed configuration of certified safety, measuring and control systems possible
- Integrated Machinery Monitoring System (MMS) consisting of Machinery Protection System (MPS) and Condition Monitoring System (CMS)
- Strict separation of MPS, SPS and ESD not required
- Full integration of the 3 systems PLC, MPS and CMS, however, also available as individual module
- Low space requirements and reduction of interfaces
- Freely programmable with SIL3 certified function blocks
- Open communication interfaces: Open Modbus TCP, RTU Modbus, others on request
- Process visualization system with integrated, high-resolution recording of the process data and sequences

Fig. 1



GA MPADA-S - Safety related SIL3 card for Machinery Monitoring Systems

The GA MPADA-S is an analog input and output card for use in BORSIG safety and control systems. It is intended for high speed data acquisition applications, especially for Machinery Protection Systems (MPS) and Condition Monitoring Systems (CMS).

The GA MPADA-S allows redundant 8-channel or non-redundant 16-channel high speed data acquisition. Specialized easy-to-apply macros for machinery monitoring of reciprocating and rotating equipment will be included with the engineering Tool GA BlueEdit.

Monitoring of axial thrust, radial vibration, casing and cross head vibration as well as pressures and temperatures will be available.

Features of the BORSIG Machinery Monitoring System (MMS):

- fully integrated into existing BORSIG safety and control systems
- stand-alone system architecture available (MPS, CMS)
- freely programmable with SIL3 certified function blocks
- time-domain and frequency domain data analysis
- diagrams available: trend, spectra, orbit, waterfall, etc.
- real time process data-logging and sequence of events

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