

AERZEN CONTROL UNIT FOR BLOWER PACKAGES

State-of-the-art technology in monitoring and controlling the Aerzen blower:

- operator interface and electronic controller combined into a single unit
- easy-to-read digital display for status and alarm
- simple integration into the plant's control through Modbus and Profibus communication protocol platforms



**AERZENER MASCHINENFABRIK
GMBH**

ASG-200 | 00 | EN

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Basic functions and standard features:

- The device's front and instrument panel are rated Nema 4 (Nema 4X optional)
- Control voltage for the controller can be 24 VDC or 110, 220-240, 380, 460 VAC 50-60Hz
- Control voltage for the outputs and for the optional unloading system may be different from ASG200 control voltage; 110V is standard
- Control voltage for the inputs: 24VUC (110VAC optional)
- Control of Wye-Delta starter, direct start MCC or a frequency inverter
- Time delay function for low oil pressure shut-down
- Operating-hour meter
- Single, dry contact for alarm and shut down signal
- Local emergency stop button that may be directly wired to the ASG200 inputs or integrated in series into the customer's wiring
- Fail-safe and shielded wiring of all transmitters: should the wire and / or transmitter fail the ASG200 will shut the blower down automatically
- Selector function: Local-/ remote operation
- Password protected alarm and shutdown values
- Automatic restart upon power failure (software switch activated)
- Protection against immediate restarting

Extended functions available in the standard control system:

- Service- and maintenance reminder with time and date
- Discharge pressure control with PID-controller
- Control outputs for a frequency inverter or a bypass regulating valve
- Suppression of L and LL suction pressure signal for max. 15 seconds
- Suppression of H and HH discharge pressure signal for max. 15 seconds

- Built in weekly operation schedule in local mode
- Memory of first-out faults, up to the last 10 occurrences with display of fault, date and time. The ASG200 displays a corresponding message in case of alarm or shutdown due to operation outside of the set parameters for pressure, temperature, main and auxiliary electric motor overload as well as motor thermistor and optional machinery diagnostic
- Selection between BAR and PSI or °C and °F
- Counter to limit number of starts per hour of the main motor
- Digital display with intuitive symbols

Optional functions:

- Operating RPM display (requires an optional speed transmitter)
- Constant-speed unloading device
- Pressure control via set point value output with module PWM (0-20 mA) i.e. for frequency converter or bypass- regulating valve
- Machinery condition monitoring device that is linked to the ASG200 controller inputs
- Acoustic hood temperature control for preheating the blower
- Data transfer to remote PC with module ANI Active Network Interface (interface RS 484). For this remote transfer a modem is necessary; contact factory
- Modbus and Profibus communication protocol via RS485 interface for instance in conjunction with a Siemens Siematic controller. Profibus DP is the standard.
- Optional area classification type instrumentation ASG200 (ex proof, UL etc. contact factory)
- Optional extended warranty terms in combination with using the ASG200 (special conditions apply, contact factory)



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