Simplifying protection.
Delivering reliability.
Optimizing productivity.

6500 Series Ex px for Zone 1/21

Your automation, our passion.

PEPPERL+FUCHS

6500 Series – Dependable Protection for Demanding Applications

The Bebco EPS® 6500 series Ex px purge and pressurization system sets a new standard for global purge solutions. Designed specifically for Zone 1/21 applications, this fully automatic solution provides a reliable and flexible solution for placing general-purpose equipment in hazardous locations.

Simplified Design for Easy Integration

The 6500 series was specifically engineered to provide users a simple and compact purge system that easily integrates into new and existing solutions. Both the control unit and digital relief vent are available with internal or external mounting options. The internal mount control unit provides a slim, panel-mount design so that only the user interface is exposed for a clean, space-saving layout into any enclosure.

Key Industries

- Oil/Gas
- Chemical/Petrochemical
- Pharmaceutical
- Power Industry
- Pulp/Paper
- Agriculture/Food

Product Highlights

- Single unit certified for gas and dust applications (ATEX, IECEx, Zone 1/21).
- Control unit automatically controls power, pneumatics, and monitoring of enclosure temperature and pressure.
- Intrinsically safe, LCD touchpad user interface allows configuration and monitoring during operation.
- Remote monitoring and configuration access via HART and Bluetooth protocols.
- Flexible protection method provides cost savings compared to explosion-proof enclosures.

The 6500 series provides a simple and compact Ex px purge system that easily integrates into new and existing solutions.

Maximum Versatility for Demanding Applications

The 6500 series delivers extreme flexibility, providing reliable protection in a variety of applications. Whether it's large control cabinets requiring high volumes of air exchange, mobile applications with bottled gas sources involving precise air flow, or gas analyzers that demand continuous dilution – the 6500 series has it covered. With intelligent programming and user configuration, the 6500 series offers a simple, cost-saving solution for the most challenging applications.

Continuous, Real-Time Communication

For demanding hazardous location applications, having continuous access to the application parameters and status is essential. The 6500 series brings real-time communication back to the PLC via an RS-485 connection with HART or Bluetooth connectivity. Both options allow up-to-date status information as well as the ability for remote configuration or alarm indication.

Intelligent Monitoring for Process Reliability

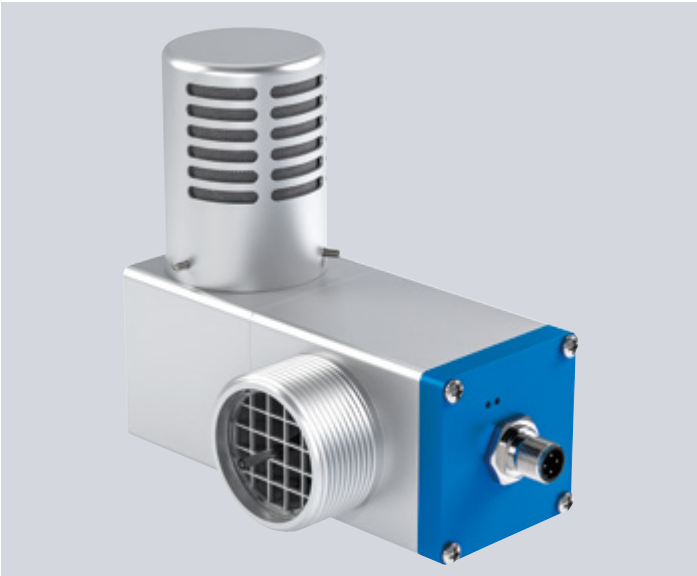
With advanced programming capabilities, the 6500 series provides reliable monitoring and control to keep essential processes up and running. By continuously monitoring the internal atmosphere of the sealed enclosure, the 6500 series can automatically activate a variety of output controls to maintain safe operating limits including:

- Automatic purge cycling to compensate pressure drifts beyond min/max pressure settings with Rapid Exchange® valve.
- Automatic temperature control via 2 RTD inputs to activate output signal for heater, Rapid Exchange, or A/C unit.
- Automatic power shut off to the enclosure in the event of system failure or if pressure exceeds min/max settings.

Digital Vent for Reliable Operation

The 6500 Series digital relief vent, which is a required component for the 6500 purge system, provides continuous monitoring of flow rates and pressure values to accurately calculate the timing of purge cycles. In addition, the 6500 Series vent maintains the same profile and design for multiple flow rates, providing easy specification into any application.

Technical Specifications	
Approvals	ATEX, IECEx, Zone 1/21
SIL Rating	SIL 2
Purge Type	Ex px - For general-purpose equipment in Zone 1/21 areas
Rated Voltage	20 … 240 VAC/VDC
Size	152 x 140 x 140 mm
Weight	5.0 kg
Material / Degree of Protection	316 stainless steel / IP66
Operating Temperature	-20 °C to +70 °C



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Explosion Protection

- Intrinsically Safe Barriers
- Signal Conditioners
- Fieldbus Infrastructure
- Remote I/O Systems
- HART Interface Solutions
- Wireless Solutions
- Level Measurement
- Purge and Pressurization Systems
- Industrial Monitors and HMI Solutions
- Electrical Explosion Protection Equipment
- Solutions for Explosion Protection

Industrial Sensors

- Proximity Sensors
- Photoelectric Sensors
- Industrial Vision
- Ultrasonic Sensors
- Rotary Encoders
- Positioning Systems
- Inclination and Acceleration Sensors
- AS-Interface
- Identification Systems
- Logic Control Units

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