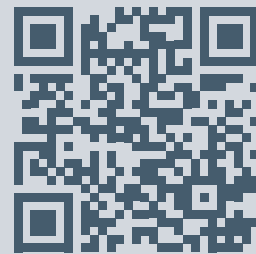# Flexible Protection for Highest Requirements.

Pepperl+Fuchs Bebco EPS®
6500 Series Ex pxb/pyb for Zone 1/21
Purge and Pressurization System
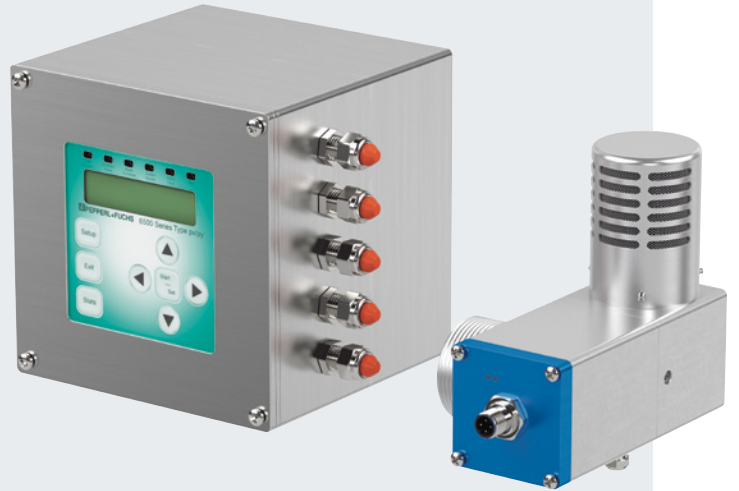
PEPPERL+FUCHS

Your automation, our passion.

PEPPERL+FUCHS

Purge and Pressurization Solutions

Engineered for simple operation, the Bebco EPS® 6500 Series Ex pxb/pyb purge and pressurization system sets a new standard for global purge solutions. Specifically designed for Zone 1/21 areas—this innovative automatic system delivers all the features you need for reliable SIL 2 exida certified hazardous area protection within a small, streamlined solution.

Unmatched Products and Reputation

The Pepperl+Fuchs Bebco EPS brand stands for excellence in design, technology, distribution, competitive pricing, and delivery. As global leaders in purge and pressurization solutions, our reputation in the industry is unmatched. We are committed to partnering with you to understand your market needs and develop innovative solutions that meet explosion protection requirements, processes and applications.

Unsurpassed Service and Support

With decades of experience in hazardous area protection, Pepperl+Fuchs is able to provide you with exceptional customer service and support you can count on. With offices in over 140 countries around the globe, we are always close to you and available anywhere in the world.

For more information, visit:
www.pepperl-fuchs.com/purge

Highlights

- ATEX/IECEx/CCC Ex Zone 1/21, SIL 2 certified
- Control unit automatically controls power, pneumatics, and monitors enclosure temperature and pressure
- Intrinsically safe LCD touch pad user interface enables configuration and monitoring during operation
- Remote monitoring capabilities via RS485/HART and Bluetooth connection
- Password-protected control unit
- Digital pressure relief vent for various flow rates and continuous flow/dilution

Technical Data

Approvals	ATEX, IECEx, CCC, SIL 2 and others
Rated voltage	AC: 100 ... 240 V/48 ... 62 Hz DC: 20 ... 30 V DC
Hazardous environment	Gas and dust
Size	5.9 × 5.9 × 5.7 in (150 × 150 × 145 mm)
Weight	Approx. 11 lb (5 kg)
Material/Degree of protection	UIC display: Makrolon FI cover; Housing: 316L stainless steel; Hardware: 316L stainless steel/IP66
Operating temperature	–20 ... +70 °C (–4 ... +158 °F)

6500 Series
Simple and Reliable Protection

Purge and Pressurization Process

Purging and pressurization allows electrical equipment to be protected from the surrounding hazardous atmosphere by placing it in a light, pressurized enclosure. This enclosure is then purged with industrial-grade air or an inert gas and maintained at a pressure higher than the hazardous external atmosphere, preventing the flammable gas or dust mixture from coming into contact with the internal components.

Dependable, Zone-Rated Components

The 6500 Series is also available with multiple Zone-rated solenoid valves. Options include ATEX/IECEx approved digital valves or proportional valves to provide reliable flow rates for a variety of applications.

System Components

- Control unit—Automatic control of essential operating functions
- Manifold/Solenoid—Electronic valve to control purge cycles and air flow
- Enclosure protection vent—Digitally controlled pressure relief vent
- Enclosure—Lightweight, common design—separates the safe area from the surrounding atmosphere

Accessories

- Cable gland kit
- ATEX/IECEx digital valve
- ATEX proportional valve
- Mounting bracket kit
- Programming software
- 6500 Series smartphone app
- RS485-USB converter

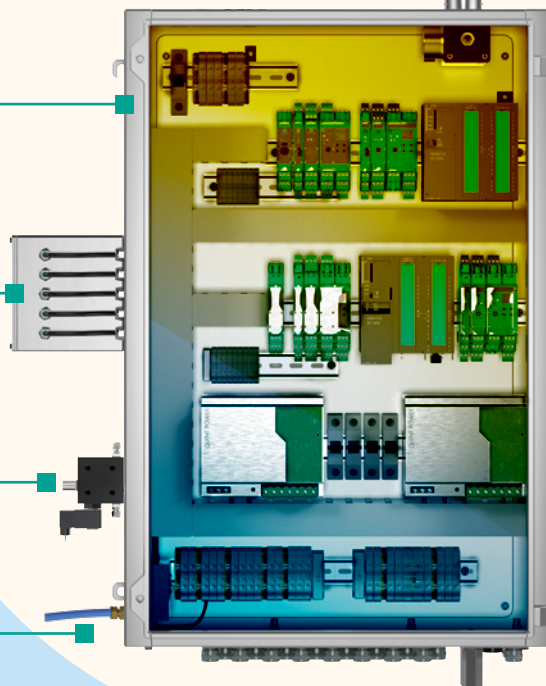**Surrounding hazardous atmosphere**

Enclosure protection vent

Enclosure

Control unit

Valve

Industrial-grade air/ inert gas supply

Hazardous gas

Clean air replaces the hazardous gas

Your automation, our passion.

Explosion Protection

- Intrinsic Safety Barriers
- Signal Conditioners
- FieldConnex® Fieldbus Infrastructure
- Remote I/O Systems
- Electrical Explosion Protection Equipment
- Purge and Pressurization Systems
- HMI Systems
- Mobile Computing and Communications
- HART Interface Solutions
- Surge Protection
- Wireless Solutions
- Level Measurement

Industrial Sensors

- Proximity Sensors
- Photoelectric Sensors
- Industrial Vision
- Ultrasonic Sensors
- Rotary Encoders
- Positioning Systems
- Inclination and Acceleration Sensors
- Vibration Monitoring
- Industrial Ethernet
- AS-Interface
- IO-Link
- Identification Systems
- Displays and Signal Processing
- Connectivity

Pepperl+Fuchs Quality
Download our latest policy here:

www.pepperl-fuchs.com/quality

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