## Features

- · Must be used in conjunction with an EPV-7500-\* vent
- · Low cost, compact design, easy to use
- Universal power: AC or DC
- Touch screen display with LEDs for easy visual indication
- · Easy setup with pre-set purge programs for your application
- Automatic pressure compensation with digital manifold
- · Rugged, corrosion-resistant housing
- Global third-party approvals for Class I, II, Div. 2 and Zone 2/22

## Application

The 7500 series purge and pressurization system consists of a control unit, an enclosure protection vent, and a manual or automatic manifold. The control unit's menu-driven touch screen display makes it easy to select pre-programmed and user-selected variables. The display has 4 LED indicators that allow users to determine system condition from a distance.

A digital manifold system such as the 5500-MAN-... can be used to make the 7500 a fully automatic system. Enclosure pressure and leakage are monitored. If a loss in enclosure pressure occurs, the solenoid valve engages to restore the defined pressure settings and/or trigger a pressure drop alarm.

The 7500 series system has NEC, CEC, ATEX, and IECEx third-party certifications for Class I, II/Div. 2 Type Z and Zone 2/22 Ex pzc.

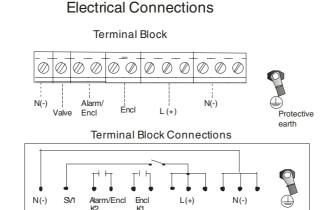


# CE (Ex



# **BEBCO EPS**<sub>®</sub>

#### Connection



max. enclosure size 450 ft <sup>3</sup> (12.7 m <sup>3</sup> )
fully automatic (FA)
7500
gas or dust
20 30 V DC at 0.1 A 90 250 V AC , 50 60 Hz at 0.04 A without solenoid valve Supply voltage can be line-to-line or line-to-neutral, single phase OVC II
$\leq$ 2.7 W / 7.3 VA without valve
screw terminals see manual for specifications on wire size and torque values
K1, terminals, 1 x NO
enclosure power contacts
5 A at 250 V AC , 5 A at 30 V DC, relays must be externally fused inrush current: 50 A
K2, terminals, 1 x NO
alarm and control contacts
5 A at 250 V AC , 5 A at 30 V DC, relays must be externally fused inrush current: 50 A
K3, terminals, L1 powered contact
solenoid manifold, contact
5 A
0.5 A at 250 V AC , 0.5 A at 30 V DC, relays must be externally fused
K1: Green - Contact K1 is energized (enclosure contacts) K2: Amber - Contact K2 is energized (alarm/control contacts) P/SV: Blue - Safe pressure P1 (minimum enclosure pressure) P/SV: Amber - Solenoid manifold is energized (purging/pressure compensation)
compressed air or inert gas, 5 μm filter, free from oil
supply pressure: 20 120 psig (1.4 8.2 bar)
0.25 in wc (0.63 mbar) minimum for gas 0.65 in wc (1.63 mbar) minimum for dust
0 10 in wc (0 24.8 mbar)
EN 61326-1:2013 , FCC CFR 47, part 15, subpart B: 2017, Class A ICES-003, Issue 6:2016, Class A ITE
EN 50581:2012
pressure sensing: $\pm 0.125$ in wc (0.31 mbar) timers: $\pm 5$ %
Ambient temperature ranges depend on the T class. See the certificates.
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-40 80 °C (-40 176 °F)
-40 80 °C (-40 176 °F) 5 90 %, non-condensing ≤ 2000 m
-40 80 °C (-40 176 °F) 5 90 %, non-condensing ≤ 2000 m 5 100 Hz , 1 g, 12 m/s <sup>2</sup> , all axes
-40 80 °C (-40 176 °F) 5 90 %, non-condensing ≤ 2000 m
-40 80 °C (-40 176 °F) 5 90 %, non-condensing ≤ 2000 m 5 100 Hz , 1 g, 12 m/s <sup>2</sup> , all axes
-40 80 °C (-40 176 °F) 5 90 %, non-condensing $\leq$ 2000 m 5 100 Hz , 1 g, 12 m/s <sup>2</sup> , all axes 30 g, 11 ms, all axes electrical: 2 x 1/2 inch NPTF (open from factory) 1 x M12 opening (plugged from factory)
-40 80 °C (-40 176 °F) 5 90 %, non-condensing $\leq$ 2000 m 5 100 Hz , 1 g, 12 m/s <sup>2</sup> , all axes 30 g, 11 ms, all axes electrical: 2 x 1/2 inch NPTF (open from factory) 1 x M12 opening (plugged from factory) pneumatic: high-pressure port - 1/8 in NPTF, low-pressure port - 1/8 in NPTF

Refer to "General Notes Relating to Pepperl+Fuchs Product Information". Pepperl+Fuchs Group

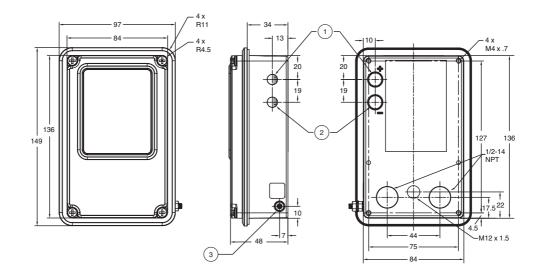
Dimensions	150 x 100 x 50 mm (5.9 x 4 x 2 in)		
Data for application in connection			
with hazardous areas Certificate			
Marking	⟨ II 3 G Ex ec nC [pzc] IIC T6T4 Gc		
	↔ II 3 D Ex tc [pzc] IIIC T60 °C T80 °C Dc		
Directive conformity			
Directive 2014/34/EU	IEC/EN 60079-0 , IEC/EN 60079-2 , IEC/EN 60079-7 , IEC/EN 60079-15 , IEC/EN 60079-31 Supplements: EN 61010-1:2010, EN 61326-3-2:2008, EN 61000-6-2:2005		
International approvals			
UL approval			
cULus	Class I, Division 2, Groups A, B, C, D T4 (-40 °C $\leq$ Ta $\leq$ 70 °C) Class I, Division 2, Groups A, B, C, D T5 (-40 °C $\leq$ Ta $\leq$ 65 °C) Class I, Division 2, Groups A, B, C, D, T6 (-40 °C $\leq$ Ta $\leq$ 50 °C) Class II, Division 2, Groups F, G T4 (-40 °C $\leq$ Ta $\leq$ 70 °C) Class II, Division 2, Groups F, G T5 (-40 °C $\leq$ Ta $\leq$ 65 °C) Class II, Division 2, Groups F, G T5 (-40 °C $\leq$ Ta $\leq$ 65 °C) Class II, Division 2, Groups F, G T6 (-40 °C $\leq$ Ta $\leq$ 50 °C)		
IECEx approval	Ex ec nC [pzc] IIC T6T4 Gc Ex tc [pzc] IIIC T60 °C T80 °C Dc		
General information			
Supplementary information	Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see		
Accessories			
EPV-7500-AA-01			
7500 series purge and pressurizat	tion system vent, aluminum body and cap		
EPV-7500-AA-02			
7500 series purge and pressurization system vent, aluminum body and cap			
EPV-7500-AA-03			
7500 series purge and pressurization system vent, aluminum body and cap			
EPV-7500-AA-04			
	tion system vent, aluminum body and cap		
EPV-7500-SS-01			
7500 series purge and pressurizat	tion system vent, aluminum body, stainless steel cap		
EPV-7500-SS-02			
7500 series purge and pressurizat	tion system vent, aluminum body, stainless steel cap		
EPV-7500-SS-03			
7500 series purge and pressurization system vent, aluminum body, stainless steel cap			
7500-MAN-MV-01			
7500 series purge and pressurization system manual manifold			
5500-MAN-CDUL-120VAC			

5500 series manifold, UL and CSA certified, 120 V AC

# 5500-MAN-CDUL-230VAC

- 5500 series manifold, UL and CSA certified, 230 V AC
- 5500-MAN-CDUL-24VDC
- 5500 series manifold, UL and CSA certified, 24 V DC
- 5500-MAN-EX01-120VAC
- 5500 series manifold, ATEX/IECEx certified, 120 V AC
- 5500-MAN-EX01-230VAC
- 5500 series manifold, ATEX/IECEx certified, 230 V AC
- 5500-MAN-EX01-24VDC
- 5500 series manifold, ATEX/IECEx certified, 24 V DC

### Dimensions



1	High-pressure port 1/8-27 NPT
2	Low-pressure port 1/8-27 NPT
3	Protective earth stud, torque 12 in lb (1.35 Nm)

# Type Code

