

Description

Model 1001B is an enclosure pressurization system that operates on a supply of compressed instrument air or inert gas. It regulates and monitors pressure within sealed (protected) enclosure(s), in order to prevent combustible dust accumulation by maintaining a "safe" (1.0") pressure. This process reduces the hazardous (classified) area rating within the enclosure(s), in accordance with the NEC - NFPA 70, Article 500, NFPA 496 and ISA 12.4.

Operation

In accordance with system instructions, start-up requires air supply to be engaged and enclosure power to be deenergized. Before start-up, all dust must be removed from the enclosure(s). The enclosure protection vent (if used) must be tested and enclosure(s) must be sealed. The enclosure pressure control regulator is then used to set a safe reading on the enclosure pressure gauge. Power can be energized when safe pressure is stable. Loss of safe pressure requires immediate attention, unless power is deenergized. WPS style systems include an explosion proof differential pressure switch with form "C" contacts for audible or visual alarm systems.

System Specifications

System Dimensions:	See page 12
Shipping Weight:	LPS - 7 lb / WPS - 12 lb
Temp. Range:	-20°F to +120°F
Supply Pressure Range:	* 5 - 120 psi
Supply Requirements:	clean air or inert gas
Safe Press. Setpoint:	1.0"
Safe Press. Flow Rate:	** 0.1 - 3.5 SCFH
System Supply Fitting:	3/8" tube fitting
Enclosure Supply Fitting:	3/8" tube fitting
Enclosure Reference Fitting:	1/4" tube fitting
Switch Setting (Decr):	0.5" \pm 0.02"
Switch Conduit Port Size:	1/2" FPT
Switch Contact Rating:	120 VAC, 15 A

* With EPV-3 Vent - 120 psi max. to 5 psi min.
Systems installed without Vent must be equipped with redundant regulator set to 5 psi max.

** Enclosure integrity determines actual flow rate

Model 1001B



LPS Style
(Less Pressure Switch)



WPS Style
(With Pressure Switch)



Standard Model Applications

Model Number: 1001B-CII Type Y	Model Number: 1001B-CII Type Z
Designation: Pressurization System	Designation: Pressurization System
Enclosure Volume: 50 ft ³ max.	Enclosure Volume: 50 ft ³ max.
LPS Style	
UL & FM Certified: Cl. II, Div. 1, Group F&G	UL & FM Certified: Cl. II, Div. 2, Group F&G
Rating Reduction: Div.1 to Div. 2	Rating Reduction: Div. 2 to Nonhazardous
WPS Style	
UL & FM Certified: Cl. II, Div. 1, Group F&G	UL & FM Certified: Cl. II, Div. 2, Group F&G
Rating Reduction: Div.1 to Div. 2	Rating Reduction: Div. 2 to Nonhazardous

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SERIES

Type Y & Z

