

Description

Model 1011 is an enclosure pressurization or purging system that operates on a supply of compressed instrument air or inert gas. It regulates and monitors pressure within sealed (protected) enclosures, in order to prevent combustible dust accumulation or remove and prevent flammable gas or vapor accumulations. In Class II areas, the system maintains a "safe" (1.0") pressure. In Class I areas, the system accomplishes four air exchanges and maintains a "safe" (0.25") pressure. These processes reduce 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. In Class II areas, 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. In Class II areas, power can be energized when safe pressure is stable. In Class I areas, the user must perform an exchange cycle (determined by the safe pressure flow rate—five minutes minimum), before power can be energized. Loss of safe pressure in Class I or II areas requires immediate attention, unless power is deenergized. System installation may be enhanced with a stand-alone Pepperl+Fuchs Model EPSK explosion proof switch kit to provide form "C" contacts for audible or visual alarm systems.

System Specifications

System Dimensions:	See page 20
Shipping Weight:	7 lb
Temp. Range:	-20 °F to +120 °F
Supply Pressure Range:	* 5 - 120 psi
Supply Requirements:	clean air or inert gas
Safe Press. (CI/CII):	0.25" / 1.0"
Safe Press. Flow Rate:	** 0.1 - 3.5 SCFH
System Supply Fitting:	1/4" tube fitting
Enclosure Supply Fitting:	1/4" tube fitting
Enclosure Reference Fitting:	1/4" tube fitting

* With EPV-1 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 1011



Front View

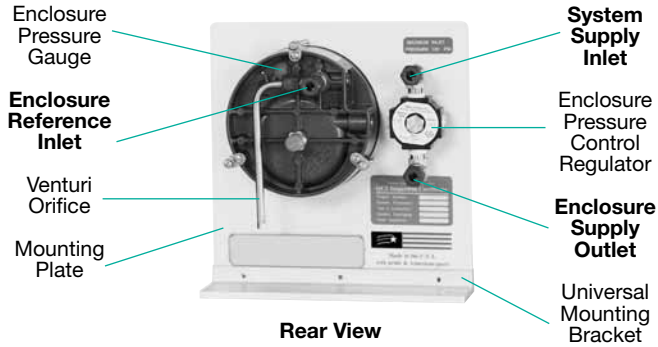


1000 SERIES

Type Z

Standard Model Applications

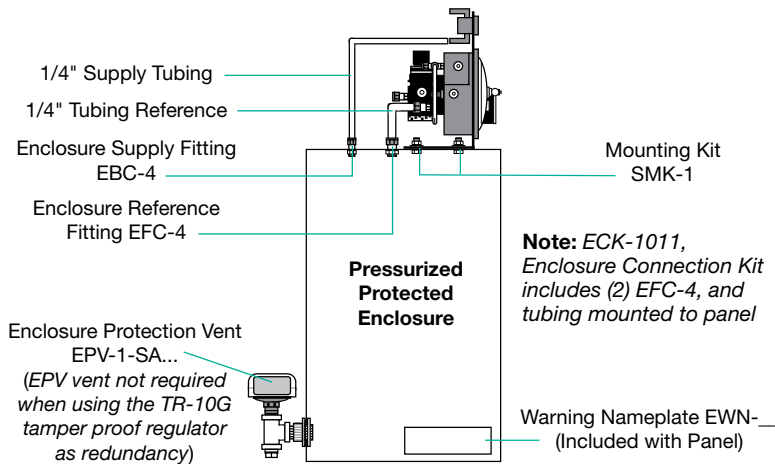
Model Number:	1011-CI Type Z	Model Number:	1011-CII Type Z
Designation:	Purging System	Designation:	Pressurization System
Enclosure Volume:	2 ft ³ max.	Enclosure Volume:	10 ft ³ max.
UL Certified:	Cl. I, Div. 2, Group A-D	UL Certified:	Cl. II, Div. 2, Group F&G
Rating Reduction:	Div.2to Nonhazardous	Rating Reduction:	Div. 2 to Nonhazardous



Rear View

CONNECTION POINTS SHOWN ABOVE IN BOLD TEXT ON SYSTEM DIAGRAM

System Accessories Diagram

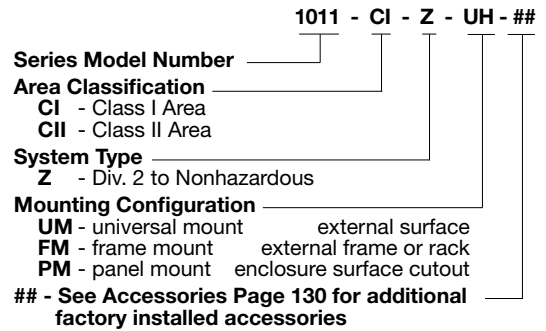


Material Specifications

Regulator Body:	Brass, Zinc w/Enamel Finish
Regulator Handle:	Polycarbonate
Enclosure Pressure Gauge:	Alum. w/Enamel Finish
Tube Fittings:	316 SS Forged Body
Tubing:	316 SS 1/4" .035 Welded
System Nameplates:	Silkscreen & Lexan®
Fastener Hardware:	Alum. & Stainless Steel
Mounting Plate & Bracket:	Anodized Aluminum
Enclosure Warning Nameplate:	Silk screened SS

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Model Number Designations



FM & PM configuration mounting plates include four (4) 1/4" mounting holes at each corner, on 5/16" centers.

Model 1011 System Accessories (See accessories page for complete details)

CONNECTION FITTINGS

EFC-4	1/4" Flush Connector
EBC-4	1/4" Bulkhead Connector
EPC-10	1/2" Pipe Connector

ADDITIONAL ITEMS

ILF-4	1/4" Filter
SMK-1 or -4	System Mounting Kit
EPSK-1 or -2	Explosion Proof Switch Kit

GPSK-1 or -2	General-purpose Switch Kit
RAH	Div. 1 Remote Alarm Horn
RAB-2	Div. 2 Remote Alarm Beacon
OPTIONAL ENCLOSURE PROTECTION VENTS	
EPV-1-SA-00	Straight w/Spark Arrestor
EPV-1-SA-90	Rt Angle w/Spark Arrestor
OPTIONAL HEX KEY REGULATOR HANDLE	
TR-10G	Tamper Proof Regulator

WARNING NAMEPLATES

EWN-1	Class I Enclosure Warning
EWN-2	Class II Enclosure Warning
ETW	Enclosure Temperature Warning

INSTALLATION & OPERATION MANUAL

129-0205	Inst. & Operation Manual
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ONE (1) ENCLOSURE WARNING NAMEPLATE & ONE (1) INSTALLATION & OPERATION MANUAL ARE PROVIDED WITH EACH SYSTEM

Overall System Dimensions						
Configuration	UM - left hand	UM - right hand	UM - top mount	UM - bottom mount	FM - frame mount	PM - panel mount
Height	8	8	8.25	8.25	8	8
Width	8.25	8.25	8	8	8	8
Depth	5	5	5	5	5	5
Dimensions in inches. Mounting dimensions available upon request. FM & PM panel cutout dimensions: 7.625h x 7.625w Height & width dimensions reflect mounting plate measurements. Depth dimension reflects overall measurement of system, including components.						