



PURGE/PRESSURIZATION SYSTEM

SERIES 1000 DATA SHEETS





Type Y and Z Systems (1000 Series)

1001A: Class I Enclosure Volumes $\leq 2 \text{ ft}^3$ and Class II Enclosure Volumes $\leq 10 \text{ ft}^3$, WPS Only 3
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1002: Class I Enclosure Volumes $\leq 15 \text{ ft}^3$ 9
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11: Class I Enclosure Volumes $\leq 2 \text{ ft}^3$ and Class II Enclosure Volumes $\leq 10 \text{ ft}^3$, WPS and WPSA 17

Type Z Systems (1000 Series)

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Description

Model 1001A 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) enclosure(s), 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. 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 4
Shipping Weight:	LPS - 5 lb / WPS - 10 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
Switch Setting (CI/CII, Decr):	0.15"/0.5" \pm 0.02"
Switch Conduit Port Size:	1/2" FPT
Switch Contact Rating	
WPS Style:	120 VAC @ 15 A
WPSA Style:	*** 120 VAC @ 10 A, 125 VDC @ 50 mA
Switch (WPSA) Power Requirement:	24 VDC @ 3 watts 120 VAC @ 4 watts 240 VAC @ 11 watts

* 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

*** Supply voltages 24 VDC and 240 VAC available upon request.

Model 1001A



LPS Style
(Less Pressure Switch)



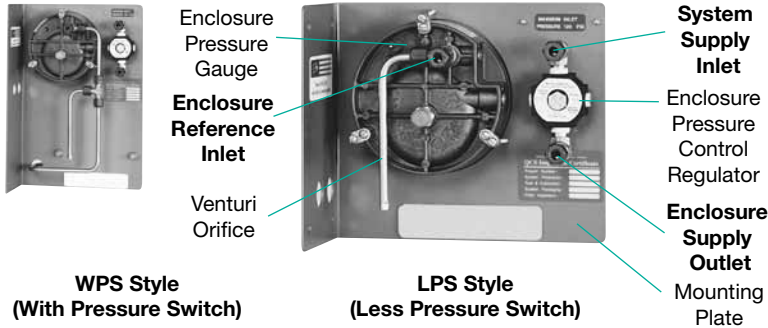
WPS/WPSA Style
(With Pressure Switch)

1000 SERIES

Type Y & Z

Standard Model Applications

<p>Model Number: 1001A-CI Type Y Designation: Purging System Enclosure Volume: 2 ft³ max.</p> <p>LPS Style UL & FM Certified: Cl. I, Div. 1, Group A-D Rating Reduction: Div. 1 to Div. 2</p> <p>WPS Style UL & FM Certified: Cl. I, Div. 1, Group C&D Rating Reduction: Div. 1 to Div. 2</p> <p>WPSA Style UL & FM Certified: Cl. I, Div. 1, Group A-D Rating Reduction: Div. 1 to Div. 2</p>	<p>Model Number: 1001A-CI Type Z Designation: Purging System Enclosure Volume: 2 ft³ max.</p> <p>LPS Style UL & FM Certified: Cl. I, Div. 2, Group A-D Rating Reduction: Div. 2 to Nonhazardous</p> <p>WPS Style UL & FM Certified: Cl. I, Div. 2, Group C&D Rating Reduction: Div. 2 to Nonhazardous</p> <p>WPSA Style UL & FM Certified: Cl. I, Div. 2, Group A-D Rating Reduction: Div. 2 to Nonhazardous</p>
<p>Model Number: 1001A-CII Type Y Designation: Pressurization System Enclosure Volume: 10 ft³ max.</p> <p>LPS Style UL & FM Certified: Cl. II, Div. 1, Group F&G Rating Reduction: Div. 1 to Div. 2</p> <p>WPS Style UL & FM Certified: Cl. II, Div. 1, Group F&G Rating Reduction: Div. 1 to Div. 2</p>	<p>Model Number: 1001A-CII Type Z Designation: Pressurization System Enclosure Volume: 10 ft³ max.</p> <p>LPS Style UL & FM Certified: Cl. II, Div. 2, Group F&G Rating Reduction: Div. 2 to Nonhazardous</p> <p>WPS Style UL & FM Certified: Cl. II, Div. 2, Group F&G Rating Reduction: Div. 2 to Nonhazardous</p>



CONNECTION POINTS SHOWN ABOVE IN BOLD TEXT ON SYSTEM DIAGRAM

Material Specifications

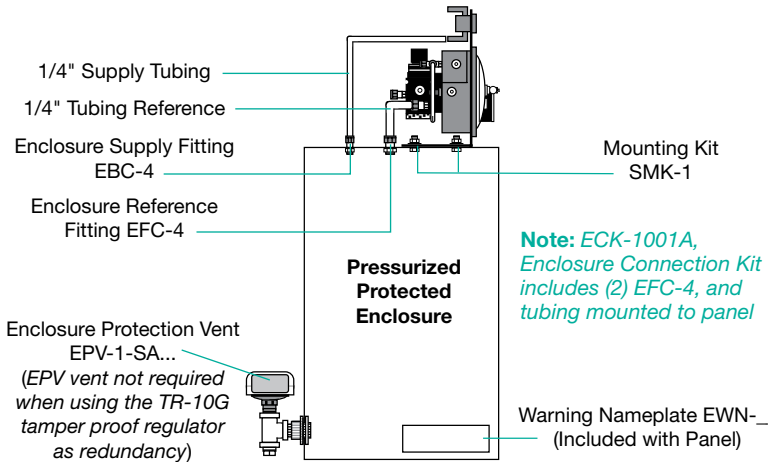
Regulator Body: Zinc w/Enamel Finish
 Regulator Handle: Polycarbonate
 Enclosure Pressure Gauge: Alum. w/Enamel Finish
 Tube Fittings: 316 SS Forged Body
 Tubing: 316 SS 1/4" .035 Welded
 System Nameplates: Silk screened Lexan® & SS
 Fastener Hardware: Alum. & Stainless Steel
 Mounting Plate: 316 14 Ga #3 Brush SS
 EXP Pressure Switch Body: Anodized Cast Alum.
 Enclosure Warning Nameplate: Silk screened SS
 Lexan® is a registered trademark of the General Electric Company

Model Number Designations

1001A - LPS - CI - YZ - LH - ##

Series Model Number
System Style
 LPS - less pressure switch
 WPS - with pressure switch
 WPSA - with pressure switch
Area Classification
 CI - Class I Area
 CII - Class II Area
System Type
 YZ - Div. 1 to Div. 2, Div. 2 to Nonhazardous
Mounting Configuration
 LH - left hand left side of enclosure
 RH - right hand right side of enclosure
 TM - top mount top of enclosure
 BM - bottom mount bottom of enclosure
 WM - wall mount wall surface
 FM - frame mount external frame or rack
 PM - panel mount enclosure surface cutout
 (Not available in WPS Style)
- See Accessories Page 130 for additional factory installed accessories

System Accessories Diagram



Model 1001A System Accessories (See accessories page for complete details)

FACTORY INSTALLED FITTINGS

ECK-1001A Enclosure Connection Kit

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, -4 or -6 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-1 Div. 1 Remote Alarm Beacon
 RAB-2 Div. 2 Remote Alarm Beacon
 LCK L Fitting Conduit Kit
 TCK T Fitting Conduit Kit

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

129-0197 Inst. & Operation Manual

ONE (1) ENCLOSURE WARNING NAMEPLATE & ONE (1) INSTALLATION & OPERATION MANUAL ARE PROVIDED WITH EACH SYSTEM

Overall System Dimensions						
LPS / WPS	LH - left hand	RH - right hand	TM - top mount	BM - bottom mount	WM - wall mount	FM & PM - surface
Height	7 / 12	7 / 12	7 / 8	7 / 8	7 / 12	9 / 14
Width	8 / 8	8 / 8	8 / 13.375	8 / 13.375	8 / 8	10 / 10
Depth	5.5 / 7.25	5.5 / 7.25	5.5 / 7.25	5.5 / 7.25	7.5 / 9.25	5 / 6.5
Dimensions in inches. Mounting dimensions available upon request. FM & PM panel cutout dimensions: LPS - 8h x 9w WPS - 13h x 9w Height & width dimensions reflect mounting plate measurements. Depth dimension reflects overall measurement of system, including components.						

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 6
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)**

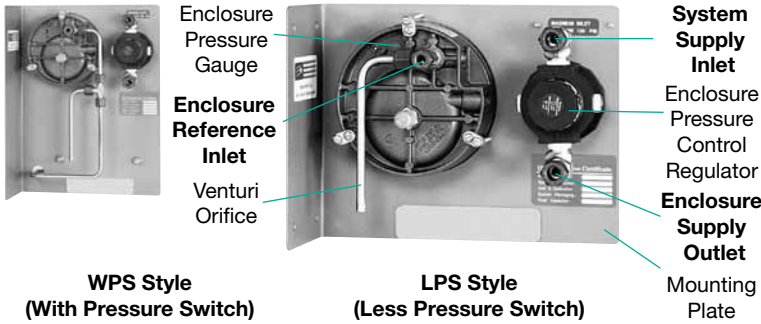


Standard Model Applications

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

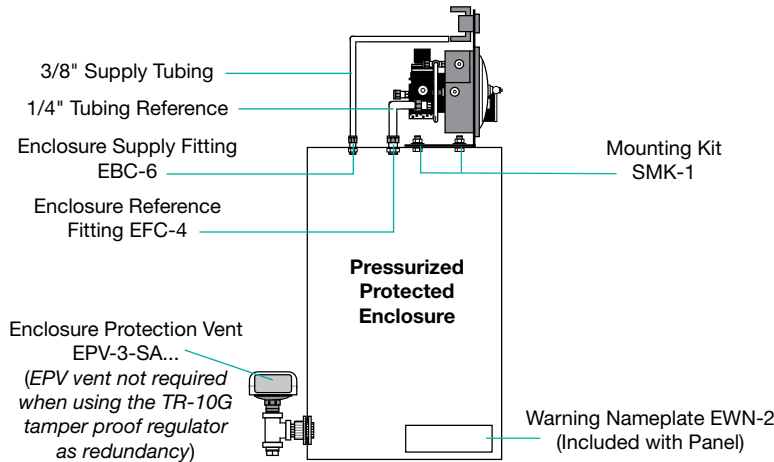
1000 SERIES

Type Y & Z



CONNECTION POINTS SHOWN ABOVE IN BOLD TEXT ON SYSTEM DIAGRAM

System Accessories Diagram



Material Specifications

Regulator Body:	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:	Silk screened Lexan® & SS
Fastener Hardware:	Alum. & Stainless Steel
Mounting Plate:	316 14 Ga #3 Brush SS
EXP Pressure Switch Body:	Anodized Cast Alum.
Enclosure Warning Nameplate:	Silk screened SS

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Model Number Designations

1001B - LPS - CII - YZ - LH - ##

Series Model Number	1001B
System Style	LPS - less pressure switch WPS - with pressure switch
Area Classification	CII - Class II Area
System Type	YZ - Div. 1 to Div. 2, Div. 2 to Nonhazardous
Mounting Configuration	LH - left hand left side of enclosure RH - right hand right side of enclosure TM - top mount top of enclosure BM - bottom mount bottom of enclosure WM - wall mount wall surface FM - frame mount external frame or rack PM - panel mount enclosure surface cutout <i>(Not available in WPS Style)</i>
## - See Accessories Page 130 for additional factory installed accessories	##

Model 1001B System Accessories (See accessories page for complete details)

CONNECTION FITTINGS & FILTER

EFC-4	1/4" Flush Connector
EFC-6	3/8" Flush Connector
EBC-6	3/8" Bulkhead Connector
EPC-13	1" Pipe Connector
ILF-6	3/8" Filter w/Clear Bowl

ADDITIONAL ITEMS

ILF-6	3/8" Filter
SMK-1, -4 or -6	System Mounting Kit

EPSC-2	Explosion Proof Switch Kit
GPSK-2	General-purpose Switch Kit
RAH	Div. 1 Remote Alarm Horn
RAB-1	Div. 1 Remote Alarm Beacon
RAB-2	Div. 2 Remote Alarm Beacon
LCK	L Fitting Conduit Kit
TCK	T Fitting Conduit Kit

OPTIONAL ENCLOSURE PROTECTION VENTS

EPV-3-SA-00	Straight w/Spark Arrestor
EPV-3-SA-90	Rt Angle w/Spark Arrestor

OPTIONAL HEX KEY REGULATOR HANDLE

TR-10G	Tamper Proof Regulator
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WARNING NAMEPLATES

EWN-2	Class II Enclosure Warning
ETW	Enclosure Temperature Warning

INSTALLATION & OPERATION MANUAL

129-0201	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						
LPS / WPS	LH - left hand	RH - right hand	TM - top mount	BM - bottom mount	WM - wall mount	FM & PM - surface
Height	7 / 12	7 / 12	7 / 8	7 / 8	7 / 12	9 / 14
Width	8.875 / 8.875	8.875 / 8.875	8.75 / 14.25	8.75 / 14.25	8.875 / 8.875	10.875 / 10.875
Depth	6 / 7.25	6 / 7.25	6 / 7.25	6 / 7.25	7.5 / 9.25	4.75 / 6.5
Dimensions in inches. Mounting dimensions available upon request. FM & PM panel cutout dimensions: LPS - 8h x 9.875w WPS - 13h x 9.875w Height & width dimensions reflect mounting plate measurements. Depth dimension reflects overall measurement of system, including components.						

Description

Model 1001C 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 8
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:	1/2" tube fitting
Enclosure Supply Fitting:	1/2" 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-4 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 1001C



**LPS Style
(Less Pressure Switch)**



**WPS Style
(With Pressure Switch)**

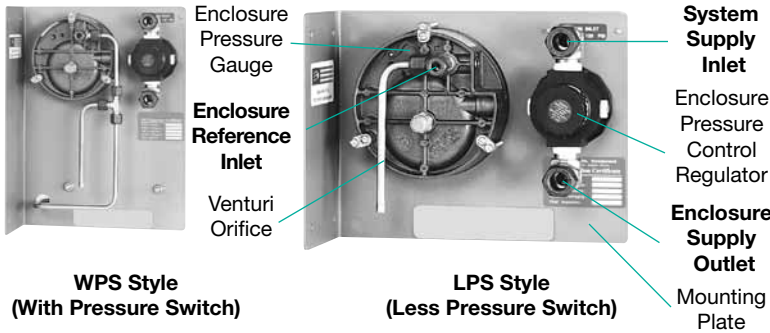


Standard Model Applications

Model Number: 1001C-CII Type Y	Model Number: 1001C-CII Type Z
Designation: Pressurization System	Designation: Pressurization System
Enclosure Volume: 250 ft ³ max.	Enclosure Volume: 250 ft ³ max.
LPS Style	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	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

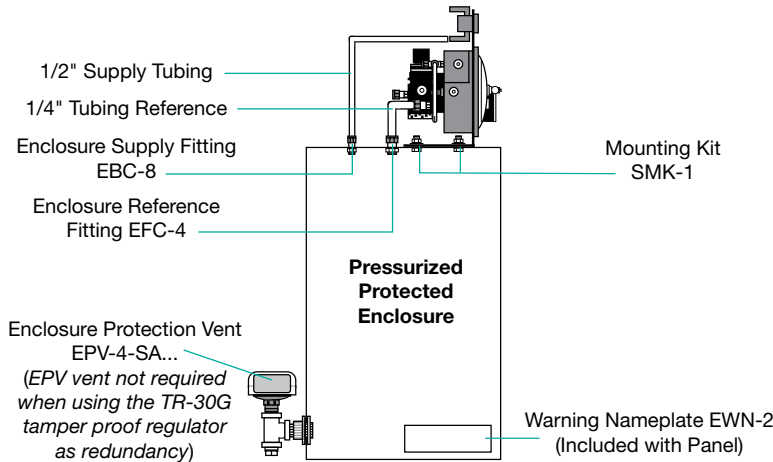
1000 SERIES

Type Y & Z



CONNECTION POINTS SHOWN ABOVE IN BOLD TEXT ON SYSTEM DIAGRAM

System Accessories Diagram



Material Specifications

Regulator Body:	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:	Silk screened Lexan® & SS
Fastener Hardware:	Alum. & Stainless Steel
Mounting Plate:	316 14 Ga #3 Brush SS
EXP Pressure Switch Body:	Anodized Cast Alum.
Enclosure Warning Nameplate:	Silk screened SS

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Model Number Designations

1001C - LPS - CII - YZ - LH - ##

Series Model Number _____

System Style _____
 LPS - less pressure switch
 WPS - with pressure switch

Area Classification _____
 CII - Class II Area

System Type _____
 YZ - Div. 1 to Div. 2, Div. 2 to Nonhazardous

Mounting Configuration _____
 LH - left hand left side of enclosure
 RH - right hand right side of enclosure
 TM - top mount top of enclosure
 BM - bottom mount bottom of enclosure
 WM - wall mount wall surface
 FM - frame mount external frame or rack
 PM - panel mount enclosure surface cutout
(Not available in WPS Style)

- See Accessories Page 130 for additional factory installed accessories

Model 1001C System Accessories (See accessories page for complete details)

CONNECTION FITTINGS & FILTER

EFC-4	1/4" Flush Connector
EFC-8	1/2" Flush Connector
EBC-8	1/2" Bulkhead Connector
EPC-14	1 1/2" Pipe Connector
ILF-8	1/2" Filter w/Clear Bowl

ADDITIONAL ITEMS

ILF-8	1/2" Filter
SMK-1, -4 or -6	System Mounting Kit

EPSP-2	Explosion Proof Switch Kit
GPSK-2	General-purpose Switch Kit
RAH	Div. 1 Remote Alarm Horn
RAB-1	Div. 1 Remote Alarm Beacon
RAB-2	Div. 2 Remote Alarm Beacon
LCK	L Fitting Conduit Kit
TCK	T Fitting Conduit Kit

OPTIONAL ENCLOSURE PROTECTION VENTS

EPV-4-SA-00	Straight w/Spark Arrestor
EPV-4-SA-90	Rt Angle w/Spark Arrestor

OPTIONAL HEX KEY REGULATOR HANDLE

TR-30G	Tamper Proof Regulator
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WARNING NAMEPLATES

EWN-2	Class II Enclosure Warning
ETW	Enclosure Temperature Warning

INSTALLATION & OPERATION MANUAL

129-0202	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						
LPS / WPS	LH - left hand	RH - right hand	TM - top mount	BM - bottom mount	WM - wall mount	FM & PM - surface
Height	7 / 12	7 / 12	7 / 8	7 / 8	7 / 12	9 / 14
Width	8.875 / 8.875	8.875 / 8.875	8.75 / 14.25	8.75 / 14.25	8.875 / 8.875	10.875 / 10.875
Depth	6 / 7.25	6 / 7.25	6 / 7.25	6 / 7.25	7.5 / 9.25	4.75 / 6.5
Dimensions in inches. Mounting dimensions available upon request. FM & PM panel cutout dimensions: LPS - 8h x 9.875w WPS - 13h x 9.875w Height & width dimensions reflect mounting plate measurements. Depth dimension panel reflects overall measurement of system, including components.						

Description

Model 1002 is a Rapid Exchange® purging 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 remove and prevent flammable gas or vapor accumulations. The system accomplishes four air exchanges and maintains a "safe" (0.25") pressure. A Pepperl+Fuchs Model EPV-2 Enclosure Protection Vent is required for proper operation. 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. The enclosure protection vent must be tested and the enclosure(s) must be sealed. The enclosure pressure control valve is then used to set a safe reading on the enclosure pressure indicator. When safe pressure is stable, the Rapid Exchange control valve must be fully engaged. Upon completion of the Rapid Exchange cycle, (five minutes minimum) the Rapid Exchange control valve must be disengaged to return to a safe enclosure pressure. Power can then be energized to the protected enclosure(s). 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 10
Shipping Weight:	LPS - 10 lb / WPS - 15 lb
Temp. Range:	-20 °F to +120 °F
Supply Pressure Range:	80 - 120 psi
Capacity & Filtration:	1.5 oz @ 20 Micron
Supply Requirements:	clean air or inert gas
Safe Press. Setpoint:	0.25"
Safe Press. Flow Rate:	* 0.1 - 3.5 SCFH
Exchange Pressure:	3" - 5"
Exchange Flow Rate:	** 4 SCFM / 240 SCFH
Exchange Time:	1 min/ft ³
System Supply Port:	1/4" FPT
Enclosure Supply Fitting:	1/4" tube fitting
Enclosure Reference Fitting:	1/4" tube fitting
Switch Setting (Decr):	0.15" ± 0.02"
Switch Conduit Port Size:	1/2" FPT
Switch Contact Rating	
WPS Style:	120 VAC @ 15 A
WPSA Style:	*** 120/220 VAC, 24 VDC @ 10 A; 125 VDC @ 50 mA
Switch (WPSA) Power Requirement:	24 / 120 / 240 VDC @ 3/4 / 11 watts

* Enclosure integrity determines actual flow rate
 ** With regulator set to 60 psi min. during exchange.
 Rapid Exchange® is a Registered Trademark of Pepperl+Fuchs.
 *** Supply voltages 24 VDC and 240 VAC available upon request.

Model 1002



LPS Style
(Less Pressure Switch)



WPS/WPSA Style
(With Pressure Switch)

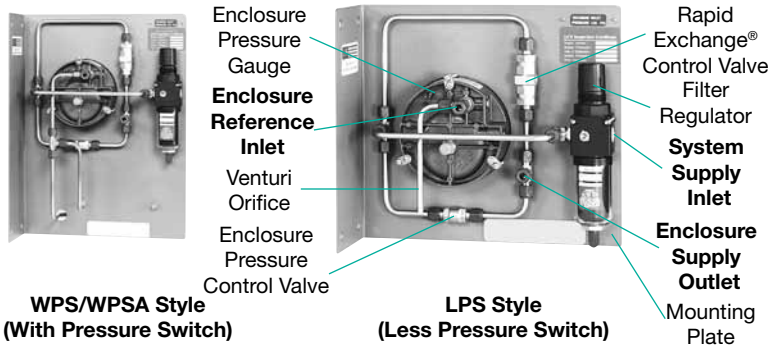


Standard Model Applications

Model Number:	1002 Type Y	Model Number:	1002 Type Z
Designation:	Purging System	Designation:	Purging System
Enclosure Volume:	15 ft ³ max.	Enclosure Volume:	15 ft ³ max.
LPS Style		LPS Style	
UL & FM Certified:	Cl. I, Div. 1 Group A-D	UL & FM Certified:	Cl. I, Div. 2, Group A-D
Rating Reduction:	Div.1 to Div. 2	Rating Reduction:	Div.2 to Nonhazardous
WPS Style		WPS Style	
UL & FM Certified:	Cl. I, Div. 1, Group C&D	UL & FM Certified:	Cl. I, Div. 2, Group C&D
Rating Reduction:	Div. 1 to Div.2	Rating Reduction:	Div.2 to Nonhazardous
WPSA Style		WPSA Style	
UL & FM Certified:	Cl. I, Div. 1, Group A-D	UL & FM Certified:	Cl. I, Div. 2, Group A-D
Rating Reduction:	Div. 1 to Div. 2	Rating Reduction:	Div. 2 to Nonhazardous

1000
SERIES

Type Y & Z



CONNECTION POINTS SHOWN ABOVE IN BOLD TEXT ON SYSTEM DIAGRAM

Material Specifications

Filter Regulator Body:	Zinc w/Enamel Finish
Regulator Handle & Bowl:	Polycarbonate
Enclosure Pressure Gauge:	Alum. w/Enamel Finish
Rapid Exchange Gauge:	Poly Case & Brass Tube
Tube Fittings & Valves:	316 SS Forged Body
Tubing:	316 SS 1/4" .035 Welded
System Nameplates:	Silk screened Lexan® & SS
Fastener Hardware:	Alum. & Stainless Steel
Mounting Plate:	316 14 Ga #3 Brush SS
EXP Pressure Switch Body:	Anodized Cast Alum.
Enclosure Warning Nameplate:	Silk screened SS

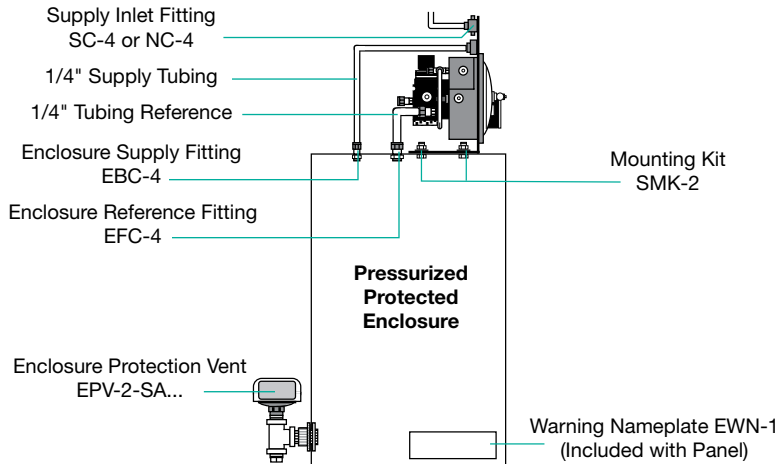
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Model Number Designations

1002 - LPS - CI - YZ - LH - ##

Series Model Number	1002
System Style	LPS - less pressure switch WPS - with pressure switch WPSA - with pressure switch
Area Classification	CI - Class I Area
System Type	YZ - Div. 1 to Div. 2, Div. 2 to Nonhazardous
Mounting Configuration	LH - left hand left side of enclosure RH - right hand right side of enclosure TM - top mount top of enclosure BM - bottom mount bottom of enclosure WM - wall mount wall surface FM - frame mount external frame or rack PM - panel mount enclosure surface cutout <i>(Not available in WPS Style)</i>
##	See Accessories Page 130 for additional factory installed accessories

System Accessories Diagram



Model 1002 System Accessories (See accessories page for complete details)

CONNECTION FITTINGS

NC-4	1/4" Ninety Connector
SC-4	1/4" Straight Connector
EFC-4	1/4" Flush Connector
EBC-4	1/4" Bulkhead Connector
EPC-12	3/4" Pipe Connector

ADDITIONAL ITEMS

SMK-2 or -8	System Mounting Kit
EPSK-1	Explosion Proof Switch Kit
GPSK-1	General-purpose Switch Kit

RAH	Remote Alarm Horn
RAB-1	Div. 1 Remote Alarm Beacon
RAB-2	Div. 2 Remote Alarm Beacon
LCK	L Fitting Conduit Kit
TCK	T Fitting Conduit Kit

ENCLOSURE PROTECTION VENTS

ONE VENT REQUIRED WITH EACH SYSTEM

EPV-2-SA-00	Straight w/Spark Arrestor
EPV-2-SA-90	Rt Angle w/Spark Arrestor

WARNING NAMEPLATES

EWN-1	Class I Enclosure Warning
ETW	Enclosure Temperature Warning
INSTALLATION & OPERATION MANUAL	
129-0196	Inst. & Operation Manual

ONE (1) ENCLOSURE WARNING NAMEPLATE & ONE (1) INSTALLATION & OPERATION MANUAL ARE PROVIDED WITH EACH SYSTEM

Overall System Dimensions						
LPS / WPS	LH - left hand	RH - right hand	TM - top mount	BM - bottom mount	WM - wall mount	FM or PM - flat panel
Height	10 / 15	10 / 15	10 / 10	10 / 10	10 / 15	12 / 17
Width	11 / 11	11 / 11	11 / 16	11 / 16	11 / 11	13 / 13
Depth	6 / 7.5	6 / 7.5	6 / 7.5	6 / 7.5	7.75 / 9.25	5 / 6.5
Dimensions in inches. Mounting dimensions available upon request. FM & PM panel cutout dimensions: LPS - 11h x 12w WPS - 16h x 12w Height & width dimensions reflect mounting plate measurements. Depth dimension reflects overall measurement of system, including components.						

Description

Model 1003 is a Rapid Exchange® purging 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 remove and prevent flammable gas or vapor accumulations. The system accomplishes four air exchanges and maintains a "safe" (0.25") pressure. A Pepperl+Fuchs Model EPV-3 Enclosure Protection Vent is required for proper operation. 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. The enclosure protection vent must be tested and the enclosure(s) must be sealed. The enclosure pressure control valve is then used to set a safe reading on the enclosure pressure indicator. When safe pressure is stable, the Rapid Exchange control valve must be fully engaged. Upon completion of the Rapid Exchange cycle, (five minutes minimum) the Rapid Exchange control valve must be disengaged to return to a safe enclosure pressure. Power can then be energized to the protected enclosure(s). 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 - 12 lb / WPS - 17 lb
Temp. Range:	-20 °F to +120 °F
Supply Pressure Range:	80 - 120 psi
Capacity & Filtration:	3.8 oz @ 40 Micron
Supply Requirements:	clean air or inert gas
Safe Press. Setpoint:	0.25"
Safe Press. Flow Rate:	* 0.1 - 3.5 SCFH
Exchange Pressure:	3" - 5"
Exchange Flow Rate:	** 10 SCFM / 600 SCFH
Exchange Time:	1 min / 2.5 ft ³
System Supply Port:	3/8" FPT
Enclosure Supply Fitting:	3/8" tube fitting
Enclosure Reference Fitting:	1/4" tube fitting
Switch Setting (Decr):	0.15" ± 0.02"
Switch Conduit Port Size:	1/2" FPT
Switch Contact Rating	
WPS Style:	120 VAC @ 15 A
WPSA Style:	*** 120/220 VAC, 24 VDC @ 10 A; 125 VDC @ 50 mA
Switch (WPSA) Power Requirement:	24 / 120 / 240 VDC @ 3/4 / 11 watts

* Enclosure integrity determines actual flow rate

** With regulator set to 60 psi min. during exchange. Rapid Exchange® is a Registered Trademark of Pepperl+Fuchs.

*** Supply voltages 24 VDC and 240 VAC available upon request.

Model 1003



LPS Style
(Less Pressure Switch)



WPS/WPSA Style
(With Pressure Switch)

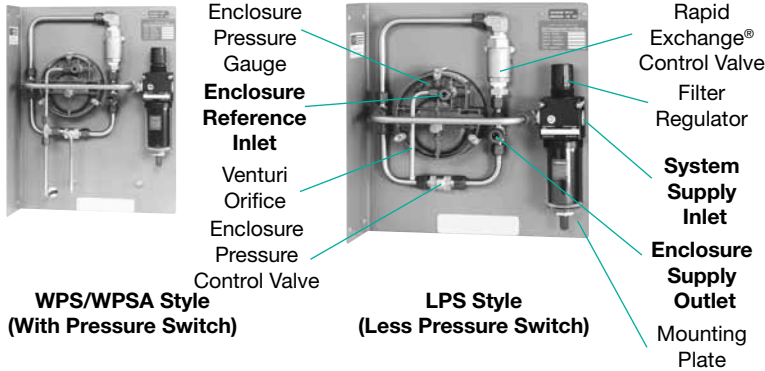


Standard Model Applications

Model Number:	1003 Type Y	Model Number:	1003 Type Z
Designation:	Purging System	Designation:	Purging System
Enclosure Volume:	75 ft ³ max.	Enclosure Volume:	75 ft ³ max.
LPS Style		LPS Style	
UL & FM Certified:	Cl. I, Div. 1, Group A-D	UL & FM Certified:	Cl. I, Div. 2, Group A-D
Rating Reduction:	Div. 1 to Div. 2	Rating Reduction:	Div. 2 to Nonhazardous
WPS Style		WPS Style	
UL & FM Certified:	Cl. I, Div. 1, Group C&D	UL & FM Certified:	Cl. I, Div. 2, Group C&D
Rating Reduction:	Div. 1 to Div. 2	Rating Reduction:	Div. 2 to Nonhazardous
WPSA Style		WPSA Style	
UL & FM Certified:	Cl. I, Div. 1, Group A-D	UL & FM Certified:	Cl. I, Div. 2, Group A-D
Rating Reduction:	Div. 1 to Div. 2	Rating Reduction:	Div. 2 to Nonhazardous

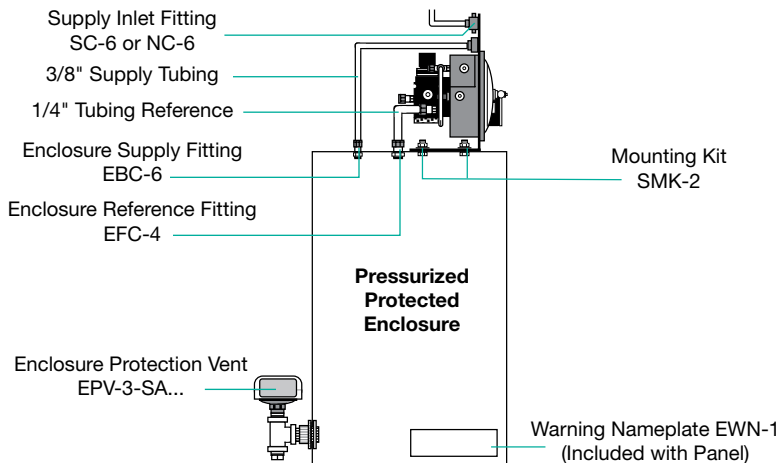
1000 SERIES

Type Y & Z



CONNECTION POINTS SHOWN ABOVE IN BOLD TEXT ON SYSTEM DIAGRAM

System Accessories Diagram



Material Specifications

Filter Regulator Body:	Zinc w/Enamel Finish
Regulator Handle & Bowl:	Polycarbonate
Enclosure Pressure Gauge:	Alum. w/Enamel Finish
Rapid Exchange Gauge:	Poly Case & Brass Tube
Tube Fittings & Valves:	316 SS Forged Body
Tubing:	316 SS 1/4" & 3/8" .035 Welded
System Nameplates:	Silk screened Lexan® & SS
Fastener Hardware:	Alum. & Stainless Steel
Mounting Plate:	316 14 Ga #3 Brush SS
EXP Pressure Switch Body:	Anodized Cast Alum.
Enclosure Warning Nameplate:	Silk screened SS

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Model Number Designations

1003 - LPS - CI - YZ - LH - ##

- Series Model Number**
 - LPS** - less pressure switch
 - WPS** - with pressure switch
 - WPSA** - with pressure switch
- Area Classification**
 - CI** - Class I Area
- System Type**
 - YZ** - Div. 1 to Div. 2, Div. 2 to Nonhazardous
- Mounting Configuration**
 - LH** - left hand left side of enclosure
 - RH** - right hand right side of enclosure
 - TM** - top mount top of enclosure
 - BM** - bottom mount bottom of enclosure
 - WM** - wall mount wall surface
 - FM** - frame mount external frame or rack
 - PM** - panel mount enclosure surface cutout
(Not available in WPS Style)

- See Accessories Page 130 for additional factory installed accessories

Model 1003 System Accessories (See accessories page for complete details)

CONNECTION FITTINGS

NC-6	3/8" Ninety Connector
SC-6	3/8" Straight Connector
EFC-4	1/4" Flush Connector
EFC-6	3/8" Flush Connector
EBC-6	3/8" Bulkhead Connector
EPC-13	1" Pipe Connector

ADDITIONAL ITEMS

SMK-2 or -8	System Mounting Kit
EPSK-1	Explosion Proof Switch Kit

GPSK-1

GPSK-1	General-purpose Switch Kit
RAH	Remote Alarm Horn
RAB-1	Div. 1 Remote Alarm Beacon
RAB-2	Div. 2 Remote Alarm Beacon
LCK	L Fitting Conduit Kit
TCK	T Fitting Conduit Kit

ENCLOSURE PROTECTION VENTS

ONE VENT REQUIRED WITH EACH SYSTEM

EPV-3-SA-00	Straight w/Spark Arrestor
EPV-3-SA-90	Rt Angle w/Spark Arrestor

WARNING NAMEPLATES

EWN-1	Class I Enclosure Warning
ETW	Enclosure Temperature Warning
INSTALLATION & OPERATION MANUAL	
129-0195	Inst. & Operation Manual

ONE (1) ENCLOSURE WARNING NAMEPLATE & ONE (1) INSTALLATION & OPERATION MANUAL ARE PROVIDED WITH EACH SYSTEM

Overall System Dimensions						
LPS / WPS	LH - left hand	RH - right hand	TM - top mount	BM - bottom mount	WM - wall mount	FM or PM - flat panel
Height	12 / 15	12 / 15	12 / 12	12 / 12	12 / 15	14 / 17
Width	11.5 / 11.5	11.5 / 11.5	11.5 / 15.25	11.5 / 15.25	11.5 / 11.5	13.5 / 13.5
Depth	6 / 7.5	6 / 7.5	6 / 7.5	6 / 7.5	7.75 / 9.25	5.75 / 7.25
Dimensions in inches. Mounting dimensions available upon request. FM & PM panel cutout dimensions: LPS - 13h x 12.5w WPS - 16h x 12.5w Height & width dimensions reflect mounting plate measurements. Depth dimension reflects overall measurement of system, including components.						

Description

Model 1004 is a Rapid Exchange® purging 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 remove and prevent flammable gas or vapor accumulations. The system accomplishes four air exchanges and maintains a "safe" (0.25") pressure. A Pepperl+Fuchs Model EPV-4 Enclosure Protection Vent is required for proper operation. 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.

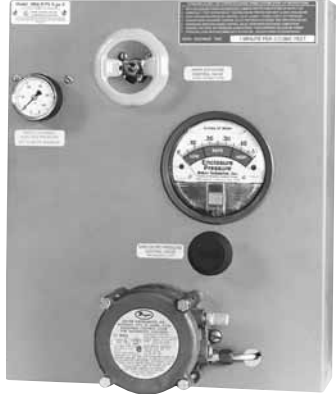
Operation

In accordance with system instructions, start-up requires air supply to be engaged and enclosure power to be deenergized. The enclosure protection vent must be tested and the enclosure(s) must be sealed. The enclosure pressure control valve is then used to set a safe reading on the enclosure pressure indicator. When safe pressure is stable, the Rapid Exchange control valve must be fully engaged. Upon completion of the Rapid Exchange cycle, (five minutes minimum) the Rapid Exchange control valve must be disengaged to return to a safe enclosure pressure. Power can then be energized to the protected enclosure(s). 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.

Model 1004



LPS Style
(Less Pressure Switch)



WPS/WPSA Style
(With Pressure Switch)



1000 SERIES

Type Y & Z

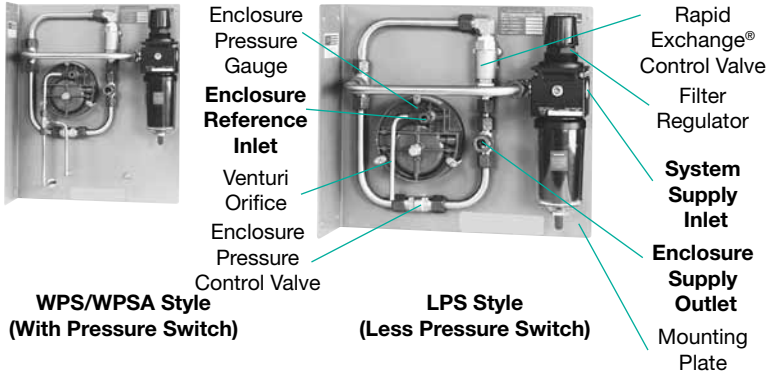
System Specifications

System Dimensions:	See page 14
Shipping Weight:	LPS - 15 lb / WPS - 23 lb
Temp. Range:	-20 °F to +120 °F
Supply Pressure Range:	80 - 120 psi
Capacity & Filtration:	8.5oz @ 40 Micron
Supply Requirements:	clean air or inert gas
Safe Press. Setpoint:	0.25"
Safe Press. Flow Rate:	* 0.1 - 3.5 SCFH
Exchange Pressure:	3" - 5"
Exchange Flow Rate:	** 30 SCFM /1800 SCFH
Exchange Time:	1 min / 7.5 ft ³
System Supply Port:	1/2" FPT
Enclosure Supply Fitting:	1/2" tube fitting
Enclosure Reference Fitting:	1/4" tube fitting
Switch Setting (Decr):	0.15" ± 0.02"
Switch Conduit Port Size:	1/2" FPT
Switch Contact Rating	
WPS Style:	120 VAC @ 15 A
WPSA Style:	*** 120/220 VAC, 24 VDC @ 10 A; 125 VDC @ 50 mA
Switch (WPSA) Power Requirement:	24 / 120 / 240 VDC @ 3 / 4 / 11 watts

* Enclosure integrity determines actual flow rate
 ** With regulator set to 80 psi min. during exchange. Rapid Exchange® is a Registered Trademark of Pepperl+Fuchs.
 *** Supply voltages 24 VDC and 240 VAC available upon request.

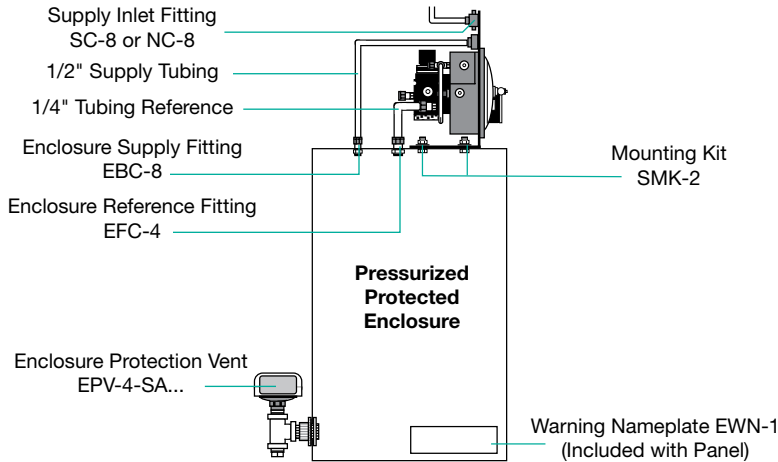
Standard Model Applications

<p>Model Number: 1004 Type Y Designation: Purging System Enclosure Volume: 200 ft³ max.</p> <p>LPS Style UL & FM Certified: Cl. I, Div. 1, Group A-D Rating Reduction: Div. 1 to Div. 2</p> <p>WPS Style UL & FM Certified: Cl. I, Div. 1, Group C&D Rating Reduction: Div. 1 to Div. 2</p> <p>WPSA Style UL & FM Certified: Cl. I, Div. 1, Group A-D Rating Reduction: Div. 1 to Div. 2</p>	<p>Model Number: 1004 Type Z Designation: Purging System Enclosure Volume: 200 ft³ max.</p> <p>LPS Style UL & FM Certified: Cl. I, Div. 2, Group A-D Rating Reduction: Div. 2 to Nonhazardous</p> <p>WPS Style UL & FM Certified: Cl. I, Div. 2, Group C&D Rating Reduction: Div. 2 to Nonhazardous</p> <p>WPSA Style UL & FM Certified: Cl. I, Div. 2, Group A-D Rating Reduction: Div. 2 to Nonhazardous</p>
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CONNECTION POINTS SHOWN ABOVE IN BOLD TEXT ON SYSTEM DIAGRAM

System Accessories Diagram



Material Specifications

Filter Regulator Body:	Zinc w/Enamel Finish
Regulator Handle & Bowl:	Polycarbonate
Enclosure Pressure Gauge:	Alum. w/Enamel Finish
Rapid Exchange Gauge:	Poly Case & Brass Tube
Tube Fittings & Valves:	316 SS Forged Body
Tubing:	316 SS 1/4" & 1/2" .035 Welded
System Nameplates:	Silk screened Lexan® & SS
Fastener Hardware:	Alum. & Stainless Steel
Mounting Plate:	316 14 Ga #3 Brush SS
EXP Pressure Switch Body:	Anodized Cast Alum.
Enclosure Warning Nameplate:	Silk screened SS

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Model Number Designations

1004 - LPS - CI - YZ - LH - ##

Series Model Number

- LPS** - less pressure switch
- WPS** - with pressure switch
- WPSA** - with pressure switch

Area Classification

- CI** - Class I Area

System Type

- YZ** - Div. 1 to Div. 2, Div. 2 to Nonhazardous

Mounting Configuration

- LH** - left hand
- RH** - right hand
- TM** - top mount
- BM** - bottom mount
- WM** - wall mount
- FM** - frame mount
- PM** - panel mount

- See Accessories Page 130 for additional factory installed accessories

Model 1004 System Accessories (See accessories page for complete details)

CONNECTION FITTINGS

NC-8	1/2" Ninety Connector
SC-8	1/2" Straight Connector
EFC-4	1/4" Flush Connector
EFC-8	1/2" Flush Connector
EBC-8	1/2" Bulkhead Connector
EPC-14	1 1/2" Pipe Connector

ADDITIONAL ITEMS

SMK-2 or 8	System Mounting Kit
EPSK-1	Explosion Proof Switch Kit

GPSK-1

RAH	General-purpose Switch Kit
RAB-1	Remote Alarm Horn
RAB-2	Div. 1 Remote Alarm Beacon
LCK	Div. 2 Remote Alarm Beacon
TCK	L Fitting Conduit Kit
	T Fitting Conduit Kit

ENCLOSURE PROTECTION VENTS

ONE VENT REQUIRED WITH EACH SYSTEM

EPV-4-SA-00	Straight w/Spark Arrestor
EPV-4-SA-90	Rt Angle w/Spark Arrestor

WARNING NAMEPLATES

EWN-1	Class I Enclosure Warning
ETW	Enclosure Temperature Warning

INSTALLATION & OPERATION MANUAL

129-0203	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						
LPS / WPS	LH - left hand	RH - right hand	TM - top mount	BM - bottom mount	WM - wall mount	FM or PM - flat panel
Height	12 / 16.25	12 / 16.25	12 / 12	12 / 12	12 / 15	14 / 18.25
Width	13.5 / 13.5	13.5 / 13.5	13.5 / 16.75	13.5 / 16.75	13.5 / 13.5	15.5 / 15.5
Depth	6.75 / 8.25	6.75 / 8.25	6.75 / 8.25	6.75 / 8.25	7.75 / 9.25	6.75 / 8.25
Dimensions in inches. Mounting dimensions available upon request. FM & PM panel cutout dimensions: LPS - 13h x 14.5w WPS - 17.25h x 14.5w Height & width dimensions reflect mounting plate measurements. Depth dimension reflects overall measurement of system, including components.						

Description

Model 1005 is a Rapid Exchange[®] purging 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 remove and prevent flammable gas or vapor accumulations. The system accomplishes four air exchanges and maintains a "safe" (0.25") pressure. A Pepperl+Fuchs Model EPV-5 Enclosure Protection Vent is required for proper operation. 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. The enclosure protection vent must be tested and the enclosure(s) must be sealed. The enclosure pressure control valve is then used to set a safe reading on the enclosure pressure indicator. When safe pressure is stable, the Rapid Exchange control valve must be fully engaged. Upon completion of the Rapid Exchange cycle, (five minutes minimum) the Rapid Exchange control valve must be disengaged to return to a safe enclosure pressure. Power can then be energized to the protected enclosure(s). 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 16
Shipping Weight:	LPS - 15 lb / WPS - 25 lb
Temp. Range:	-20 °F to +120 °F
Supply Pressure Range:	80 - 120 psi
Capacity & Filtration:	8.5 oz @ 40 Micron
Supply Requirements:	clean air or inert gas
Safe Press. Setpoint:	0.25"
Safe Press. Flow Rate:	* 0.1 - 3.5 SCFH
Exchange Pressure:	3" - 5"
Exchange Flow Rate:	** 60 SCFM / 3600 SCFH
Exchange Time:	1 min / 15 ft ³
System Supply Port:	1/2" FPT
Enclosure Supply Fitting:	1/2" FPT
Enclosure Reference Fitting:	1/4" tube fitting
Switch Setting (Decr):	0.15" ± 0.02"
Switch Conduit Port Size:	1/2" FPT
Switch Contact Rating	
WPS Style:	120 VAC @ 15 A
WPSA Style:	*** 120/220 VAC, 24 VDC @ 10 A; 125 VDC @ 50 mA
Switch (WPSA) Power Requirement:	24 / 120 / 240 VDC @ 3/4 / 11 watts

* Enclosure integrity determines actual flow rate
 ** With regulator set to 80 psi min. during exchange Rapid Exchange[®] is a Registered Trademark of Pepperl+Fuchs, Inc.
 *** Supply voltages 24 VDC and 240 VAC available upon request.

Model 1005



LPS Style
(Less Pressure Switch)



WPS/WPSA Style
(With Pressure Switch)

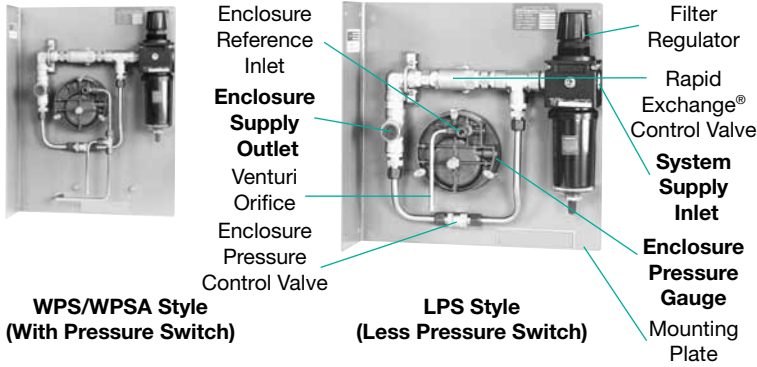


Standard Model Applications

<p>Model Number: 1005 Type Y Designation: Purging System Enclosure Volume: 450 ft³ max.</p> <p>LPS Style UL & FM Certified: Cl. I, Div. 1, Group A-D Rating Reduction: Div. 1 to Div. 2</p> <p>WPS Style UL & FM Certified: Cl. I, Div. 1, Group C&D Rating Reduction: Div. 1 to Div. 2</p> <p>WPSA Style UL & FM Certified: Cl. I, Div. 1, Group A-D Rating Reduction: Div. 1 to Div. 2</p>	<p>Model Number: 1005 Type Z Designation: Purging System Enclosure Volume: 450 ft³ max.</p> <p>LPS Style UL & FM Certified: Cl. I, Div. 2, Group A-D Rating Reduction: Div. 2 to Nonhazardous</p> <p>WPS Style UL & FM Certified: Cl. I, Div. 2, Group C&D Rating Reduction: Div. 2 to Nonhazardous</p> <p>WPSA Style UL & FM Certified: Cl. I, Div. 2, Group A-D Rating Reduction: Div. 2 to Nonhazardous</p>
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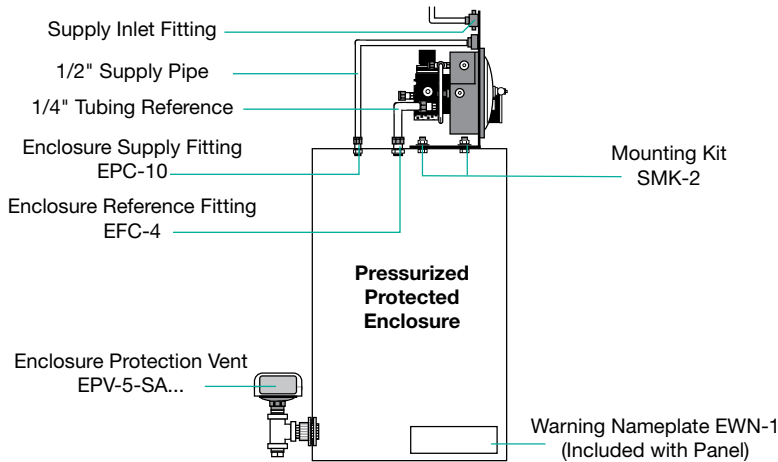
1000 SERIES

Type Y & Z



CONNECTION POINTS SHOWN ABOVE IN BOLD TEXT ON SYSTEM DIAGRAM

System Accessories Diagram



Material Specifications

Filter Regulator Body:	Zinc w/Enamel Finish
Regulator Handle & Bowl:	Polycarbonate
Enclosure Pressure Gauge:	Alum. w/Enamel Finish
Rapid Exchange Gauge:	Poly Case & Brass Tube
Tube Fittings & Valves:	316 SS Forged Body
Tubing:	316 SS 1/4" .035 Welded
System Nameplates:	Silk screened Lexan® & SS
Fastener Hardware:	Alum. & Stainless Steel
Mounting Plate:	316 14 Ga #3 Brush SS
EXP Pressure Switch Body:	Anodized Cast Alum.
Enclosure Warning Nameplate:	Silk screened SS

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Model Number Designations

1005 - LPS - CI - YZ - LH - ##

Series Model Number

- LPS** - less pressure switch
- WPS** - with pressure switch
- WPSA** - with pressure switch

Area Classification

- CI** - Class I Area

System Type

- YZ** - Div. 1 to Div. 2, Div. 2 to Nonhazardous

Mounting Configuration

- LH** - left hand left side of enclosure
- RH** - right hand right side of enclosure
- TM** - top mount top of enclosure
- BM** - bottom mount bottom of enclosure
- WM** - wall mount wall surface
- FM** - frame mount external frame or rack
- PM** - panel mount enclosure surface cutout

- See Accessories Page 130 for additional factory installed accessories

Model 1005 System Accessories (See accessories page for complete details)

CONNECTION FITTINGS

EFC-4	1/4" Flush Connector
EPC-10	1/2" Pipe Connector
EPC-15	2" Pipe Connector

ADDITIONAL ITEMS

SMK-2 or -8	System Mounting Kit
EPSK-1	Explosion Proof Switch Kit
GPSK-1	General-purpose Switch Kit
RAH	Remote Alarm Horn

RAB-1	Div. 1 Remote Alarm Beacon
RAB-2	Div. 2 Remote Alarm Beacon
LCK	L Fitting Conduit Kit
TCK	T Fitting Conduit Kit

ENCLOSURE PROTECTION VENTS

ONE VENT REQUIRED WITH EACH SYSTEM	
EPV-5-SA-00	Straight w/Spark Arrestor
EPV-5-SA-90	Rt Angle w/Spark Arrestor

WARNING NAMEPLATES

EWN-1	Class I Enclosure Warning
ETW	Enclosure Temperature Warning
INSTALLATION & OPERATION MANUAL	
129-0204	Inst. & Operation Manual

ONE (1) ENCLOSURE WARNING NAMEPLATE & ONE (1) INSTALLATION & OPERATION MANUAL ARE PROVIDED WITH EACH SYSTEM

Overall System Dimensions						
LPS / WPS	LH - left hand	RH - right hand	TM - top mount	BM - bottom mount	WM - wall mount	FM or PM - flat panel
Height	13.5 / 17.75	13.5 / 17.75	14 / 13	14 / 13	15 / 17.75	15.5 / 19.75
Width	13.5 / 13.5	13.5 / 13.5	13.5 / 16.125	13.5 / 16.125	13.5 / 13.5	15.5 / 15.5
Depth	6 / 7.5	6 / 7.5	6 / 7.5	6 / 7.5	7.75 / 9.25	5 / 6.5
Dimensions in inches. Mounting dimensions available upon request. FM & PM panel cutout dimensions: LPS - 14.5h x 14.5w WPS - 18.75h x 14.5w Height & width dimensions reflect mounting plate measurements. Depth dimension reflects overall measurement of system, including components.						

Class I ($\leq 2 \text{ ft}^3$) and Class II ($\leq 10 \text{ ft}^3$)

Description

Model 11 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) enclosure(s), 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. WPS style systems include an explosion proof differential pressure switch with form "C" contacts for audible or visual alarm systems.

Specifications

System Dimensions:	See page 18
Shipping Weight:	LPS - 5 lb /WPS - 10 lb
Temp. Range:	40°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
Switch Setting (CI/CII, Decr):	0.15" / 0.5" \pm 0.02"
Switch Conduit Port Size:	1/2" FPT
Switch Contact Rating:	120 VAC @ 15 A

* 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 11



LPS Style
(Less Pressure Switch)



WPS Style
(With Pressure Switch)

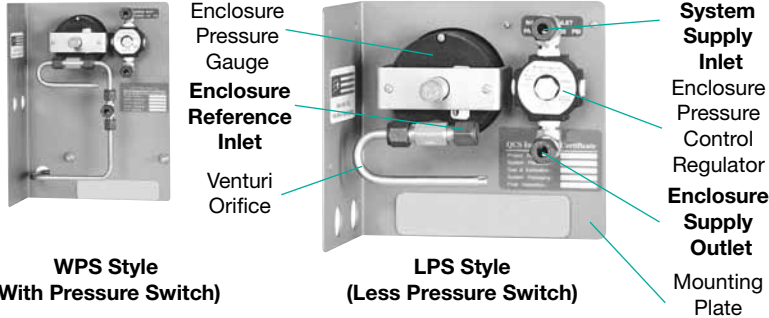


Standard Model Applications

<p>Model Number: 11-CI Type Y Designation: Purging System Enclosure Volume: 2 ft³ max.</p> <p>LPS Style UL & FM Certified: Cl. I, Div. 1, Group A-D Rating Reduction: Div. 1 to Div. 2</p> <p>WPS Style UL & FM Certified: Cl. I, Div. 1, Group C&D Rating Reduction: Div. 1 to Div. 2</p>	<p>Model Number: 11-CI Type Z Designation: Purging System Enclosure Volume: 2 ft³ max.</p> <p>LPS Style UL & FM Certified: Cl. I, Div. 2, Group A-D Rating Reduction: Div. 2 to Nonhazardous</p> <p>WPS Style UL & FM Certified: Cl. I, Div. 2, Group C&D Rating Reduction: Div. 2 to Nonhazardous</p>
<p>Model Number: 11-CII Type Y Designation: Pressurization System Enclosure Volume: 10 ft³ max.</p> <p>LPS Style UL & FM Certified: Cl. II, Div. 1, Group F&G Rating Reduction: Div. 1 to Div. 2</p> <p>WPS Style UL & FM Certified: Cl. II, Div. 1, Group F&G Rating Reduction: Div. 1 to Div. 2</p>	<p>Model Number: 11-CII Type Z Designation: Pressurization System Enclosure Volume: 10 ft³ max.</p> <p>LPS Style UL & FM Certified: Cl. II, Div. 2, Group F&G Rating Reduction: Div. 2 to Nonhazardous</p> <p>WPS Style UL & FM Certified: Cl. II, Div. 2, Group F&G Rating Reduction: Div. 2 to Nonhazardous</p>

1000 SERIES

Type Y & Z



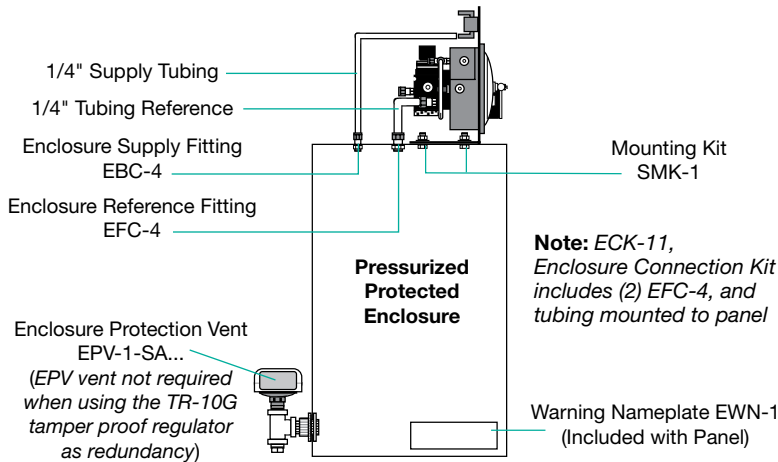
Material Specifications

Regulator Body:	Zinc w/Enamel Finish
Regulator Handle:	Polycarbonate
Enclosure Pressure Gauge:	ABS Plastic
Tube Fittings:	316 SS Forged Body
Tubing:	316 SS 1/4" .035 Welded
System Nameplates:	Silk screened Lexan® & SS
Fastener Hardware:	Alum. & Stainless Steel
Mounting Plate:	316 14 Ga #3 Brush SS
EXP Pressure Switch Body:	Anodized Cast Alum.
Enclosure Warning Nameplate:	Silk screened SS

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CONNECTION POINTS SHOWN ABOVE IN BOLD TEXT ON SYSTEM DIAGRAM

System Accessories Diagram



Model Number Designations

11 - LPS - CI - YZ - LH - ##

Series Model Number 11

System Style LPS - less pressure switch
WPS - with pressure switch

Area Classification CI - Class I Area
CII - Class II Area

System Type YZ - Div. 1 to Div. 2, Div. 2 to Nonhazardous

Mounting Configuration LH - left hand (left side of enclosure)
RH - right hand (right side of enclosure)
TM - top mount (top of enclosure)
BM - bottom mount (bottom of enclosure)
WM - wall mount (wall surface)
FM - frame mount (external frame or rack)
PM - panel mount (enclosure surface cutout)
(Not available in WPS Style)

- See Accessories Page 130 for additional factory installed accessories

Model 11 System Accessories (See accessories page for complete details)

FACTORY INSTALLED FITTINGS & FILTER	ECK-11 Enclosure Connection Kit	EPSP-1 or -2 Explosion Proof Switch Kit	OPTIONAL HEX KEY REGULATOR HANDLE	TR-10G Tamper Proof Regulator
CONNECTION FITTINGS	EFC-4 1/4" Flush Connector	GPSK-1 or -2 General-purpose Switch Kit	WARNING NAMEPLATES	EWN-1 Class I Enclosure Warning
	EBC-4 1/4" Bulkhead Connector	RAH Div. 1 Remote Alarm Horn		EWN-2 Class II Enclosure Warning
	EPC-10 1/2" Pipe Connector	RAB-1 Div. 1 Remote Alarm Beacon		ETW Enclosure Temperature Warning
ADDITIONAL ITEMS		RAB-2 Div. 2 Remote Alarm Beacon	INSTALLATION & OPERATION MANUAL	129-0207 Inst. & Operation Manual
	ILF-4 1/4" Filter	LCK L Fitting Conduit Kit		
	SMK-1, -4 or -6 System Mounting Kit	TCK T Fitting Conduit Kit		
		OPTIONAL ENCLOSURE PROTECTION VENTS		
		EPV-1-SA-00 Straight w/Spark Arrestor		
		EPV-1-SA-90 Rt Angle w/Spark Arrestor		

ONE (1) ENCLOSURE WARNING NAMEPLATE & ONE (1) INSTALLATION & OPERATION MANUAL ARE PROVIDED WITH EACH SYSTEM

Overall System Dimensions						
LPS / WPS	LH - left hand	RH - right hand	TM - top mount	BM - bottom mount	WM - wall mount	FM & PM - surface
Height	6.25 / 10.75	6.25 / 10.75	6.25 / 8.5	6.25 / 8.5	6.25 / 10.75	8.25 / 12.75
Width	6 / 7.5	6 / 7.5	7.5 / 13.375	7.5 / 13.375	6 / 7.5	8 / 9.5
Depth	5.5 / 7.25	5.5 / 7.25	5.5 / 7.25	5.5 / 7.25	5.5 / 7.25	4.5 / 7
Dimensions in inches. Mounting dimensions available upon request. FM & PM panel cutout dimensions: LPS - 7.25h x 7w WPS - 11.75h x 8.5w Height & width dimensions reflect mounting plate measurements. Depth dimension reflects overall measurement of system, including components.						

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

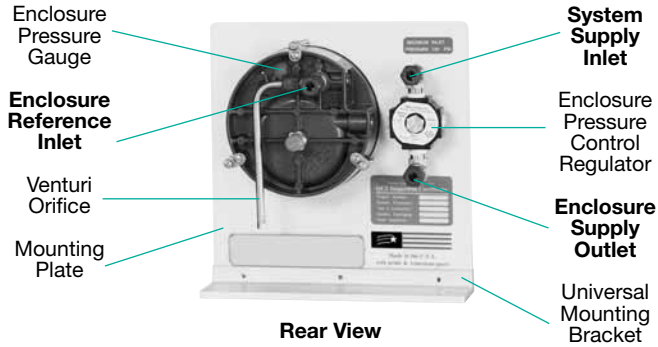


1000 SERIES

Type Z

Standard Model Applications

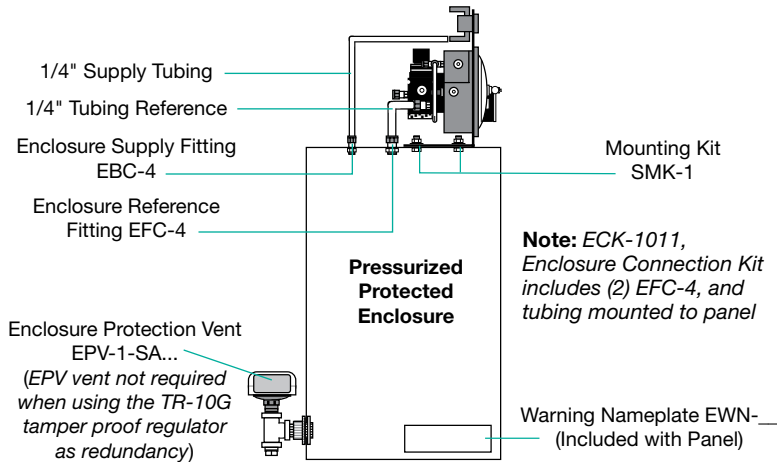
Model Number:	1011-CI Type Z	Model Number:	1011-CII Type Z
Designation:	Purging System	Designation:	Pressurization System
Enclosure Volume:	2 ft ³ max.	Enclosure Volume:	10 ft ³ max.
UL Certified:	Cl. I, Div. 2, Group A-D	UL Certified:	Cl. II, Div. 2, Group F&G
Rating Reduction:	Div.2to Nonhazardous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



Rear View

CONNECTION POINTS SHOWN ABOVE IN BOLD TEXT ON SYSTEM DIAGRAM

System Accessories Diagram

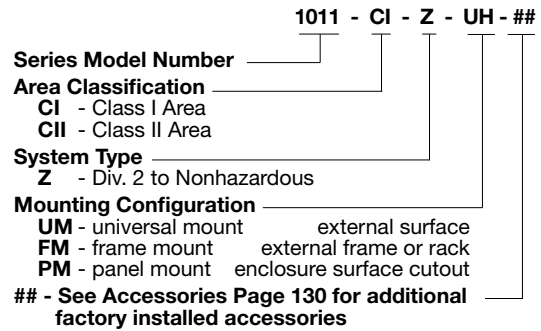


Material Specifications

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
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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.

Description

Model 1012 is a Rapid Exchange® purging 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 remove and prevent flammable gas or vapor accumulations. The system accomplishes four air exchanges and maintains a "safe" (0.25") pressure. A Pepperl+Fuchs Model EPV-2 Enclosure Protection Vent is required for proper operation. 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. The enclosure protection vent must be tested and the enclosure(s) must be sealed. The enclosure pressure control valve is then used to set a safe reading on the enclosure pressure indicator. When safe pressure is stable, the Rapid Exchange control valve must be fully engaged. Upon completion of the Rapid Exchange cycle, (five minutes minimum) the Rapid Exchange control valve must be disengaged to return to a safe enclosure pressure. Power can then be energized to the protected enclosure(s). Loss of safe pressure 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 22
Shipping Weight:	10 lb
Temp. Range:	-20 °F to +120 °F
Supply Pressure Range:	80 - 120 psi
Capacity & Filtration:	1.5 oz @ 20 Micron
Supply Requirements:	clean air or inert gas
Safe Press. Setpoint:	0.25"
Safe Press. Flow Rate:	* 0.1 - 3.5 SCFH
Exchange Pressure:	3" - 5"
Exchange Flow Rate:	** 4 SCFM/240 SCFH
Exchange Time:	1 min/ft ³
System Supply Port:	1/4" FPT
Enclosure Supply Fitting:	1/4" tube fitting
Enclosure Reference Fitting:	1/4" tube fitting

* Enclosure integrity determines actual flow rate
 ** With regulator set to 60 psi min. during exchange. Rapid Exchange® is a Registered Trademark of Pepperl+Fuchs.

Model 1012



Front View

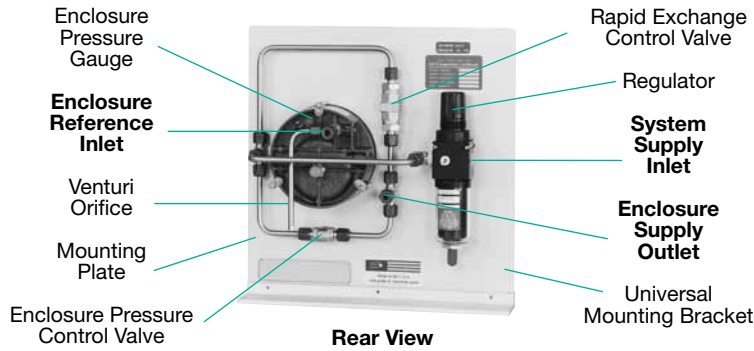


Standard Model Applications

Model Number:	1012-CI Type Z
Designation:	Purging System
Enclosure Volume:	15 ft ³ max.
UL Certified:	Cl. I, Div. 2, Group A-D
Rating Reduction:	Div. 2 to Nonhazardous

1000 SERIES

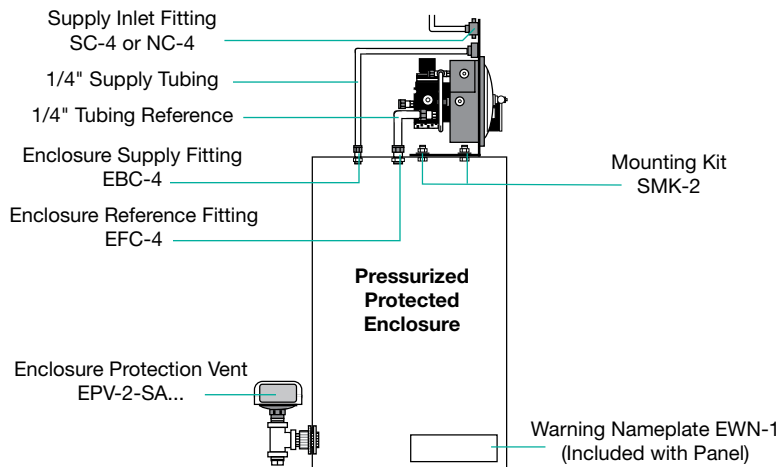
Type Z



Rear View

CONNECTION POINTS SHOWN ABOVE IN BOLD TEXT ON SYSTEM DIAGRAM

System Accessories Diagram

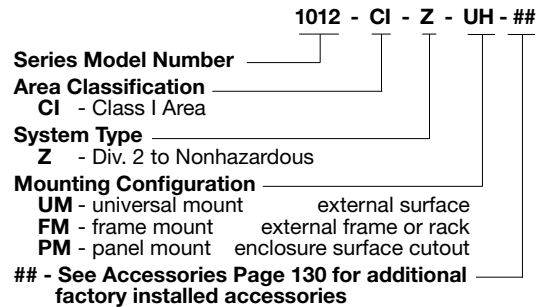


Material Specifications

Filter Regulator Body:	Zinc w/Enamel Finish
Regulator Handle & Bowl:	Polycarbonate
Enclosure Pressure Gauge:	Alum. w/Enamel Finish
Rapid Exchange Valve:	Poly Case & Brass Tube
Tube Fittings & Valves:	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 1012 System Accessories (See accessories page for complete details)

CONNECTION FITTINGS

NC-4	1/4" Ninety Connector
SC-4	1/4" Straight Connector
EFC-4	1/4" Flush Connector
EBC-4	1/4" Bulkhead Connector
EPC-12	3/4" Pipe Connector

ADDITIONAL ITEMS

SMK-1 or -4	System Mounting Kit
EPSK-1	Explosion Proof Switch Kit

GPSK-1	General-purpose Switch Kit
RAH	Remote Alarm Horn
RAB-2	Div. 2 Remote Alarm Beacon

ENCLOSURE PROTECTION VENTS

ONE VENT REQUIRED WITH EACH SYSTEM

EPV-2-SA-00	Straight w/Spark Arrestor
EPV-2-SA-90	Rt Angle w/Spark Arrestor

WARNING NAMEPLATES

EWN-1	Class I Enclosure Warning
ETW	Enclosure Temperature Warning

INSTALLATION & OPERATION MANUAL

129-0206	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	UM - left hand	UM - right hand	UM - top mount	UM - bottom mount	FM - frame mount	PM - panel mount
Configuration	UM - left hand	UM - right hand	UM - top mount	UM - bottom mount	FM - frame mount	PM - panel mount
Height	12	12	12.25	12.25	12	12
Width	12.25	12.25	12	12	12	12
Depth	5	5	5	5	5	5
Dimensions in inches. Mounting dimensions available upon request. FM & PM panel cutout dimensions: 11.625h x 11.625w Height & width dimensions reflect mounting plate measurements. Depth dimension reflects overall measurement of system, including components.						

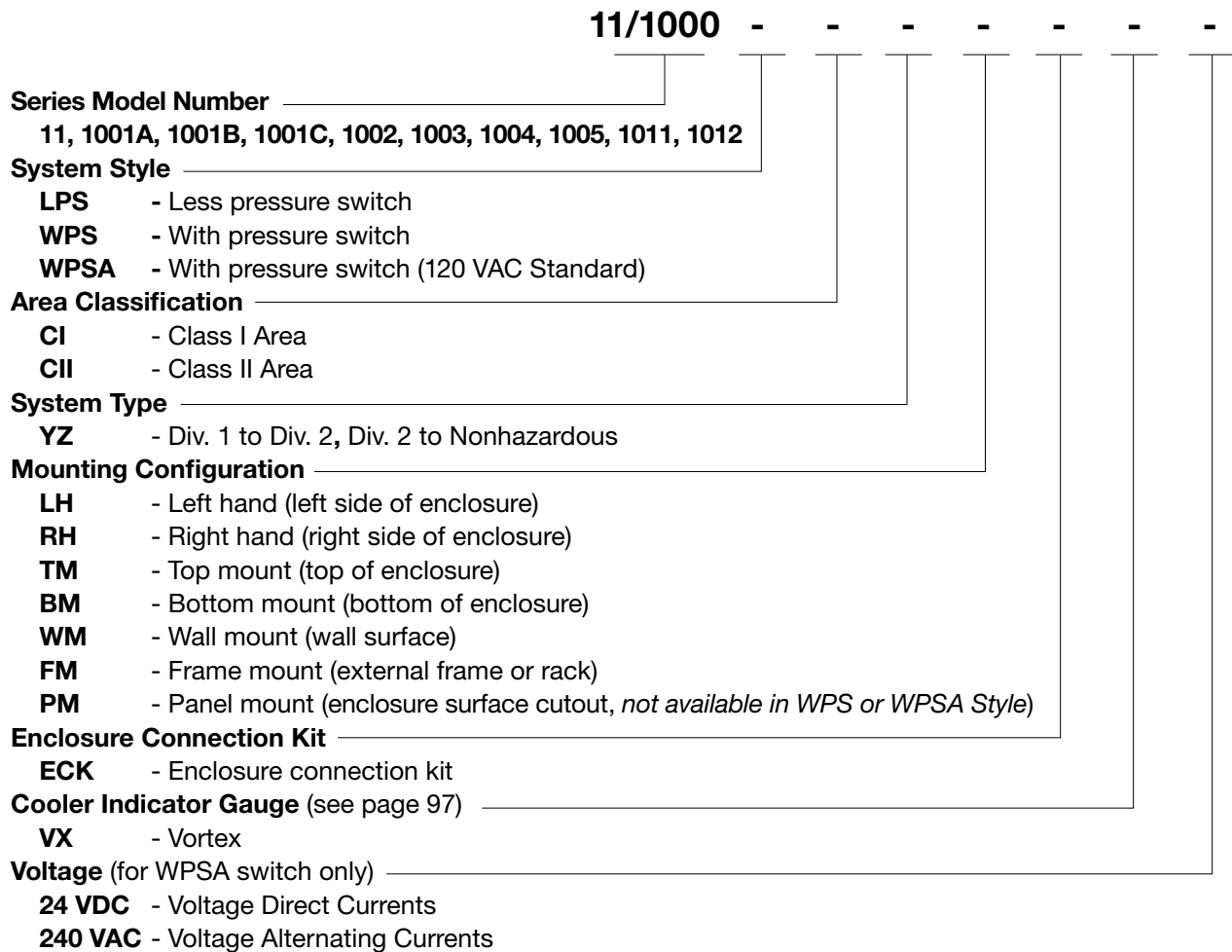
Pepperl+Fuchs supplies purge/pressurization systems custom built to your specifications. To ensure the integrity of your system, certain accessory items must be factory installed.

The Model Number and Accessories Guide identifies those parts that must be included on your purge/pressurization system order.

11/1000 Series – Model Number Designations and Accessories Guide

1000
SERIES

Type Y & Z



Description

The cooler indicator gauge, sometimes called the Vortex indicator gauge, is used on systems where there is cooling required after purging. Normally after the purging cycle, there is a small flow of protective gas required to compensate for leakages, and to keep a constant pressure within the enclosure so that the ingress of hazardous atmosphere cannot get inside the enclosure. This is known as pressurization. If the equipment inside the pressurized enclosure requires cooling, either a higher flow rate of protective gas is required through the pressurization valve, or a second source of cooling gas is introduced into the enclosure. The standard differential pressure gauge will indicate pressurization only up to 0.5 inches (13 mm) water, which may not be enough for cooling indication. The cooler indicator gauge is installed onto the pressurization/purge panel, and allows monitoring of the system during normal operation of the purge/pressurization system.

Cooler Indicator Gauge



Cooler Indicator Gauge
(Vortex Indicator Gauge)

Special Note

TO ORDER PURGE/PRESSURIZATION UNITS EQUIPPED WITH A COOLER INDICATION GAUGE, SPECIFY 'VX' IN THE MODEL NUMBER DESIGNATION.

Specifications

OPERATING RANGE

Full range:	0 to 5 " (0 to 127 mm) water
Low range red:	0 to 0.5 " (0 to 13 mm) water
Safe range green:	0.5 to 1.5 " (13 to 38 mm) water
Cooler/Rapid exchange range yellow:	1.5 to 4.5 " (38 to 114 mm) water
High range red:	4.5 to 5 " (114 to 127 mm) water

BODY COMPONENTS

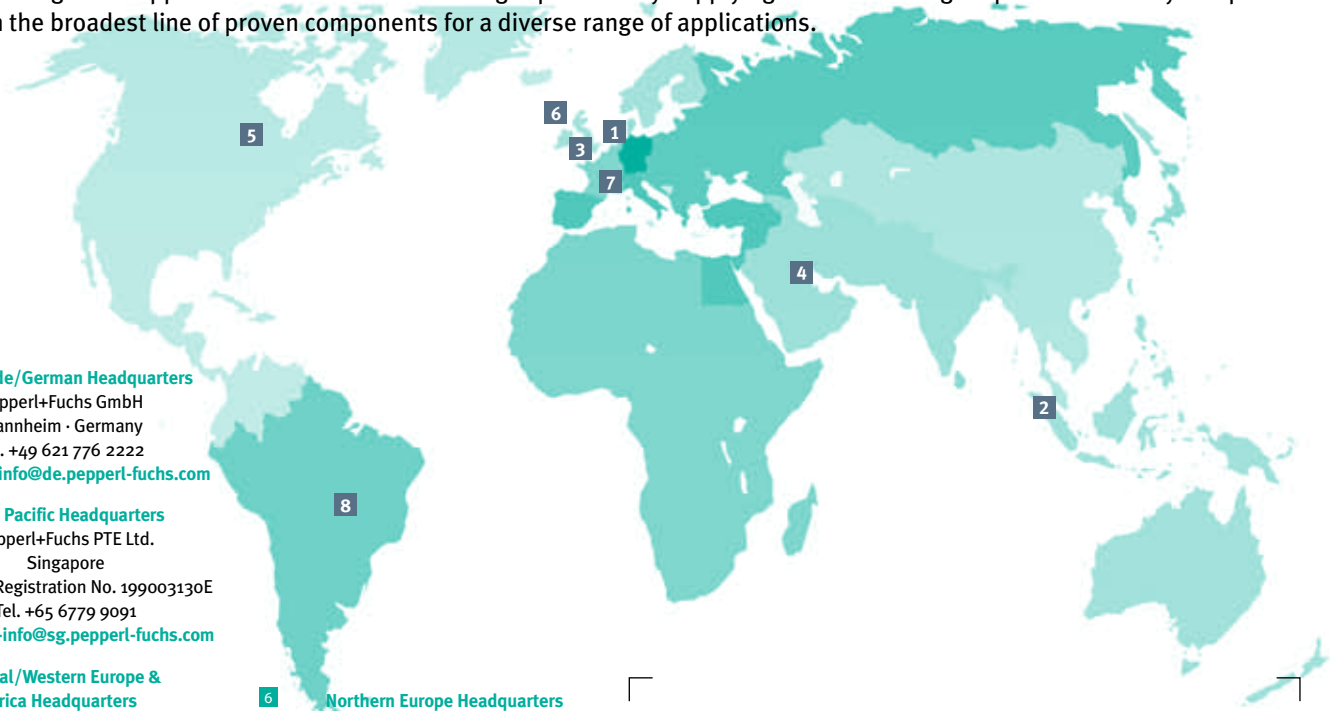
Cover:	acrylic
Housing:	die cast aluminum coated to withstand 168 hour salt spray corrosion test

TECHNICAL DATA

Maximum overload pressure:	15 psig
Accuracy:	± 2% of full scale
Weight:	1.2 lb (510 g)
Process connection:	1/8" Female NPT duplicate high and low pressure taps, one pair side, one pair back



For over a half century, Pepperl+Fuchs has provided new concepts for the world of process automation. Our company sets standards in quality and innovative technology. We develop, produce and distribute electronic interface modules, Human-Machine Interfaces and hazardous location protection equipment on a global scale, meeting the most demanding needs of industry. Resulting from our world-wide presence and our high flexibility in production and customer service, we are able to offer complete individual solutions – wherever and whenever you need us. We are the recognized experts in our technologies – Pepperl+Fuchs has earned a strong reputation by supplying the world’s largest process industry companies with the broadest line of proven components for a diverse range of applications.



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