

# Model YZ101

## Product Description

# Type Y & Z Pressurization Unit

Model YZ101 is a Type Y or Z pressurization unit designed to protect electrical equipment in Class I and Class II hazardous locations. When connected to a supply of protective gas, the Model YZ101 will supply, regulate and monitor the protective gas supply to a protected electrical enclosure. Type Z applications reduce the hazardous location rating inside the enclosure from Division 2/ Zone 2 to non hazardous. This allows general purpose equipment to operate in Division 2/ Zone 2 areas. Type Y applications reduce the hazardous location rating inside the enclosure from Division 1/ Zone 1 to Division 2/ Zone 2. This allows Division 2/ Zone 2 equipment to operate in Division 1/ Zone 1 areas.

A **DMI Model PV-3** spark arresting Purge Vent installed on the protected enclosure **OR** a **DMI Model RR-4** Redundant Regulator (or equivalent) installed upstream of the Model YZ101 Pressurization Unit is required for safe operation.

This unit is designed to meet or exceed NEC - NFPA 70, NFPA 496, EN 50016 and IEC 60079-02 requirements.



**YZ101-CI/CII-W or B-V  
With Pressure Switch**



**YZ101-CI/CII-L-U  
Less Pressure Switch  
Shown w/  
MF-8 Universal  
Mounting Flange**



**YZ101-CI/CII-W or B-H  
With Pressure Switch**

## Unit Specifications

Recommended Max. Enclosure Volumes:

Class I Applications:	* 2 cubic feet
Class II Applications:	* 50 cubic feet
Protective Gas Supply:	Air or Inert Gas
Unit Supply Pressure:	
w/ Purge Vent:	80 - 125 psi max.
w/ Redundant Regulator:	5 psi max.
Unit Supply Connection:	1/4" tube fitting
Enclosure Supply:	1/4" tube fitting
Enclosure Reference:	1/4" tube fitting
Safe Enclosure Pressure:	0.5" w.c. / 55Kb
Safe Press. Flowrate:	** 0.1 - 3.5 scfh per cf

\* Contact Factory for applications with larger enclosure volumes

\*\* Enclosure Integrity determines actual Flowrate

## Material Specifications

Unit Mounting Plate:	316 SS Brushed
Regulator body:	Enamel Finished Zinc
Regulator Handle:	Polycarbonate
Enclosure Press. Gauge:	Enameled Alum.
Tubing:	316 Stainless Steel
Tube Fittings:	316 Stainless Steel
Start up Labels:	Silkscreened Lexan
Enclosure Warning Label:	316 Stainless Steel

# D&M Instruments, Inc.

Copyright © 2004 D&M Instruments, Inc.  
Document Control # YZ101SDS-R1.0

Ph. 281-557-1002  
Fax: 281-557-0703  
League City, Texas USA  
www.dminstruments.com  
sales@dminstruments.com



**YZ101-CI/CII-W-V  
With Pressure Switch  
Rear View**



**YZ101-CI/CII-L-U  
Less Pressure Switch  
Rear View**

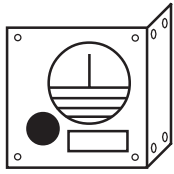
**Model YZ101**



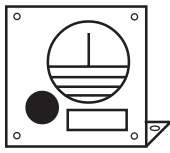
**YZ101-CI/CII-W-H  
With Pressure Switch  
Rear View**

Enclosure Pressure Reference Connection  
 Enclosure Pressure Gauge  
 Atmospheric Reference  
 Venturi Orifice  
 Unit Supply Connection  
 Enclosure Pressure Control Regulator  
 Enclosure Supply Connection

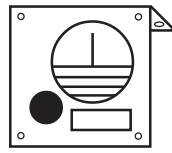
**Typical Mounting Configurations**



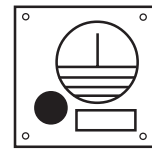
**Left Mount**



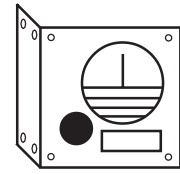
**Top Mount**



**Bottom Mount**

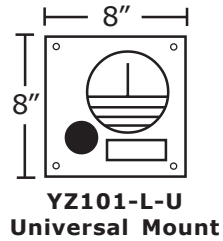


**Frame Mount**

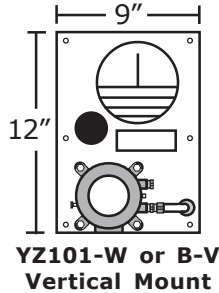


**Right Mount**

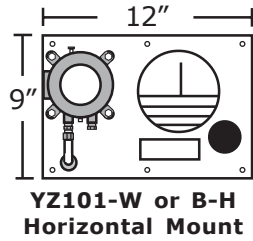
**Pressurization Unit Dimensions**



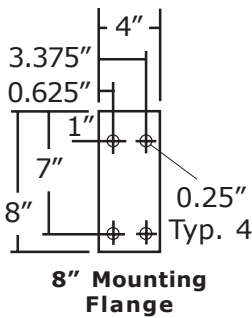
**YZ101-L-U  
Universal Mount**



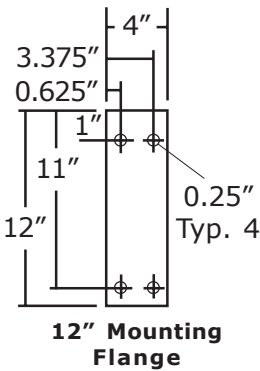
**YZ101-W or B-V  
Vertical Mount**



**YZ101-W or B-H  
Horizontal Mount**



**8" Mounting  
Flange**



**12" Mounting  
Flange**

**Model Number Matrix**

**Model # YZ-101-CI/CII-L-U**

**Div./Zone Reduction**  
 Y- Div.1/Zone1 to Div. 2/Zone 2  
 Z- Div.2/Zone2 to Non-Hazardous

**Unit Series**  
 101- Pressurization Unit

**Area Classification**  
 CI/CII- Class I & Class II Areas

**Pressure Switch Option**  
 L- Provided Less Switch  
 W- Provided With CI, Gr. C&D EXP Switch  
 B- Provided With CI, Gr. B EXP Switch

**Mounting Options**  
 U- Universal Mounting \*  
 V- Vertical Mounting  
 H- Horizontal Mounting

\* - Not Available with pressure switch options

**Pressurization Unit Accessories**

- RR-4: 1/4" Tamper Proof Redundant Regulator w/ Gauge
- PV-3-T: Top Mount Spark Arresting Purge Vent
- PV-3-S: Side Mount Spark Arresting Purge Vent
- BCK-101: Model YZ101 Bulkhead Connection Kit
- PSK-GP: General Purpose Pressure Switch Kit
- PSK-ED: Group C&D EXP Pressure Switch Kit
- PSK-EB: Group B EXP Pressure Switch Kit
- EWL-1: SS Enclosure Warning Label
- YZ103 IOM: Installation & Operating Manual

**Local Sales Representative**



Ph. 281-557-1002  
 Fax: 281-557-0703  
 League City, Texas USA  
 www.dminstruments.com  
 sales@dminstruments.com

Specifications Subject to Change without Notice  
 Warranty & Liability Statements available upon request

**D&M Instruments, Inc.**