



Product Data Sheet

Operator Interface Adapters

Class I or II, Div 1 or 2
ATEX Zone 1 or 2 (21 or 22)



A typical Expo Technologies Adapter installation - here used by a manufacturer of gas separators - employs a NEMA 4 enclosure and Allen-Bradley's Panel-View® interface.

OVERVIEW

The Expo Technologies Operator Interface Adapters is used to allow regular operator interfaces to be used in hazardous locations.

It is used with Expo Technologies purging systems and suitable pressurized enclosures. The Adapter increases the Classification of operator interfaces from Non-Classified or Div. 2 to Class I, II. Div. 1, 2. Group A through G. / ATEX Zone 1, 2 (21 or 22) IIC.

The Adapters provide water and dust protection, enable full functionality of operator interfaces/keyboards, and allow viewing of enclosed monitor screens.

Adapters can be manufactured by Expo Technologies, for any operator interface, including Allen-Bradley's Panel View® series. Consult factory regarding use with other manufacturers' models.

FEATURES

- + Mounts into the wall of standard pressurized panel.
- + Comes complete with its own gasket.
- + When used with an approved Expo purge system (see Application Details below), the design complies with the requirements of the NFPA 496 Standard and is included within the ATEX EN 50016 certificate for pressurized enclosures issued to Expo Technologies by SCS (Sira Certification Services UK).



An Expo Technologies MiniPurge® unit provides purging and pressurization between the Adapter and the third-party panel interface.

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NFPA 496

ISO 9001

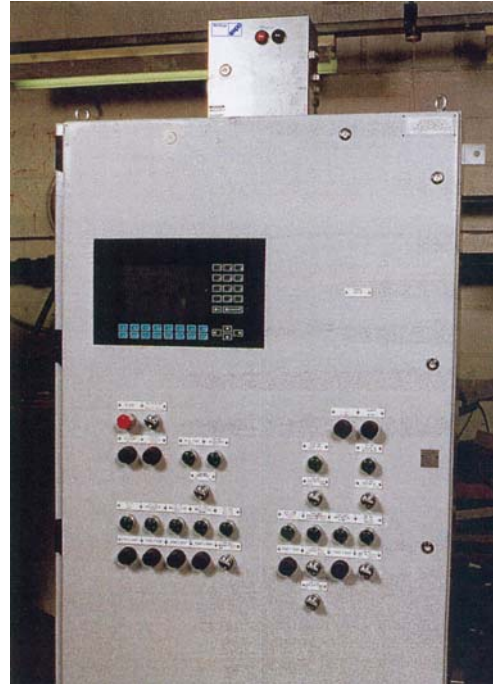
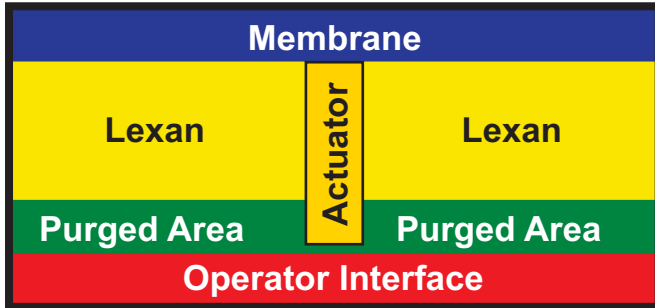
Technical Specification

Operator Interface Adapters: General Information

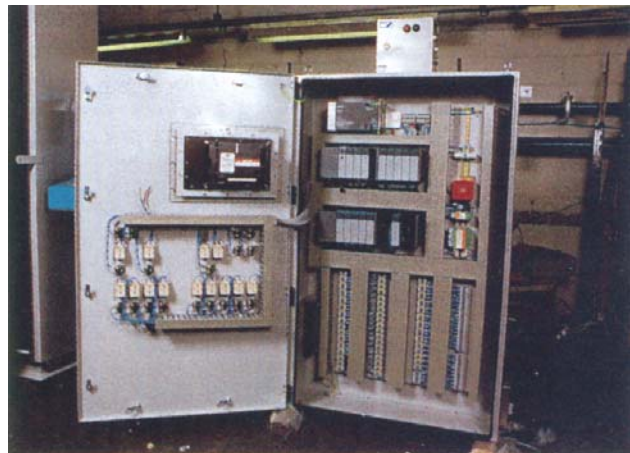
OPERATING PRINCIPLE

The design provides mechanical protection and pressurization containment, but still enables viewing and operation from the hazardous location. The other membrane mimics the artwork of the original operator interface.

Hazardous Location



Allen Bradley 900 complete with the Expo Operator Interface Adapter installed in a Pressurized Enclosure. Class I Division 1 or for a Zone 1 & 2 (21 & 22) area.



Allen Bradley 900 complete with the Expo Operator Interface Adapter installed in a Pressurized Enclosure. Class I Division 1 or for a Zone 1 & 2 (21 & 22) area.

Application Details

For NEC Div. 1 / Zone 1 and ATEX Zone 1 / 2 (21/22):	Purge with MiniPurge® (NFPA X purge / ATEX dual-approved Control System).
For NEC Div. 2 / Zone 2:	Purge with Mini-Z-Purge.
For NEC Div. 1 / Zone 1 using Div. 2 Operator Interface and Equipment:	Purge with Mini-Y-Purge.

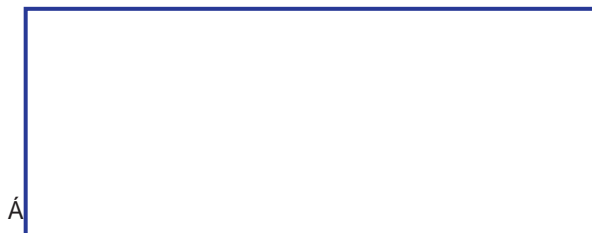
Enclosure pressure max.	10mbar	4"WC
Mounting distance min from Operator interface	13mm	1/2"
Operator Travel	up to 0.5mm	
Use with Touchscreen	not compatible - consult factory	

Expo Technologies Ltd Expo Technologies Inc

140 Ravenna Road, Unit 3,
Twinsburg, 44087, OH, USA
 T +44 (0) 20 8398 8011 T 888-NFPA-496 (Toll Free)
 F +44 (0) 20 8398 8014 F +1 440 247 5409
 E sales@expoworldwide.com E sales.na@expoworldwide.com

www.expoworldwide.com

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