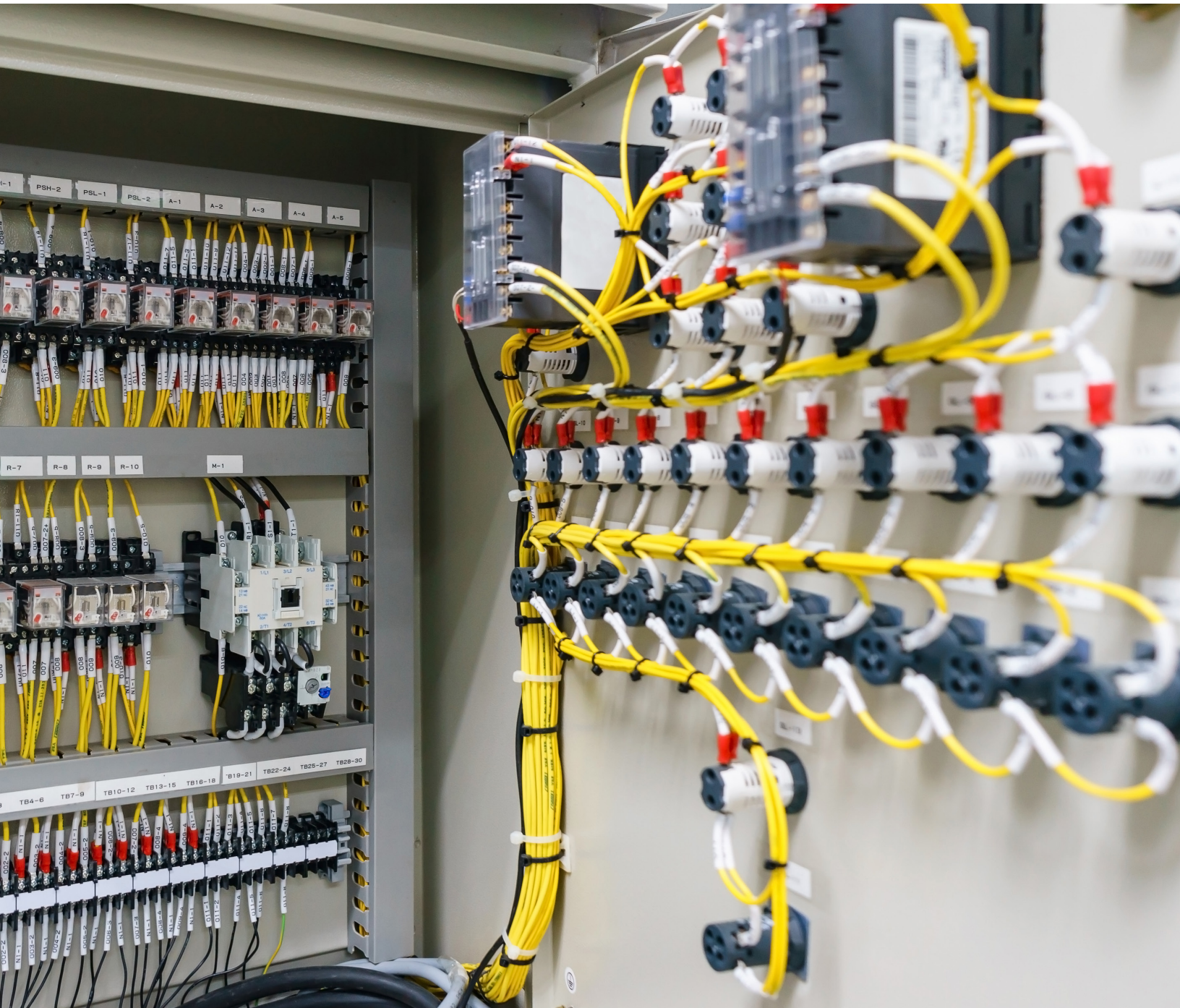




Building hazardous area panels?
See how Expo can help.



However long you've been part of a Panel Shop Program, Expo can help

Expo has been working with panel builders and other hazardous area equipment manufacturers for more than 6 decades - we've supplied more than 17,000 purge systems and designed & built more than 2,500 pressurized enclosures - so we're not exaggerating when we say we are experts in Purge & Pressurization.

Our range of Purge & Pressurization systems includes units that are suitable for Type X, Y & Z protection and can protect enclosures up to 240 cu.ft. in volume. All systems carry a wide range of certification, including UL listing (E190061) and FM (1X8A4AE) giving you immediate compliance in the USA. A wide range of other certification is available, giving easier access to international markets.

In addition to purge & pressurization systems, we are experts in pressurized enclosures. Using standardized building blocks and automated configuration & design tools, we can deliver you tailor-made, Type 4X UL listed (E47737) enclosures within weeks. And we can include whatever custom features you need - gland plates, switch cut-outs, mounting plates, windows etc. We can also take care of thermal management with a range of cooling or heating options.

North American approved purge systems for enclosure volumes up to 240 cu.ft.

X, Y, Z types, Leakage Compensation or Continuous Flow

Power and signal isolation capability for Class I Div 1 applications.

Simple installation, fast commissioning, backed by a global service network

Comprehensive application support

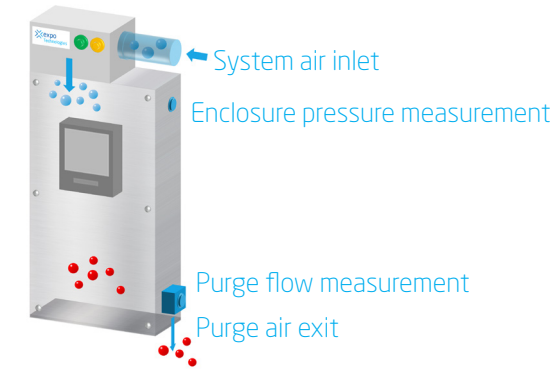
Full enclosure design & manufacturing service for non-standard & complex projects.

Multiple customizable features

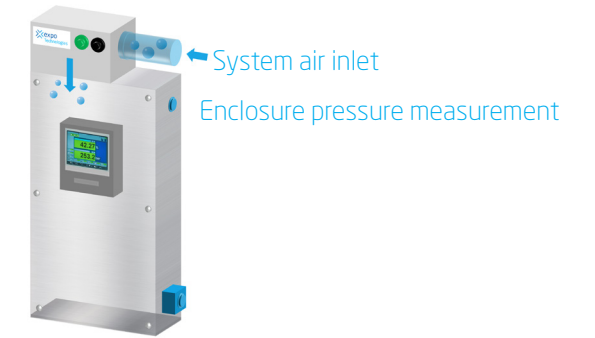
UL50E type 4X ingress protection

ATEX & IECEx certification capability for projects outside of the USA.

Purge & Pressurization - a simple solution to a complex problem



Purge: The purge system supplies clean, dry instrument air to the enclosure at a high flow rate for a pre-set time, expelling any potentially flammable atmosphere remaining inside. Enclosure pressure and purge flow are monitored. The electrical equipment inside the enclosure is not energized.



Pressurization: After purge is complete, the system supplies sufficient air to maintain a constant pressure inside the enclosure, compensating for any small leaks, preventing ingress of the outside atmosphere. Enclosure pressure is monitored. The electrical equipment inside the enclosure can be energized.

How can Expo help?



Globally certified purge systems



Non-standard & complex enclosures



Application & Certification support

Expo's MiniPurge range



MiniPurge Type X	Gas: Class I Division 1 Dust: Class II Division 1
MiniPurge Type Y	Gas: Class I Division 1 Dust: Class II Division 1
MiniPurge Type Z	Gas: Class I Division 2 Dust: Class II Division 2
Certifications	USA & Canada: cULus, FM, International: ATEX, IECEx, UKCA, INMETRO, KOSHA, EAC, CCC
Operating Modes	Leakage Compensation (LC) or Continuous Flow (CF)
Purge Flow Rate	Up to 32 ft ³ /min depending on model
Enclosure volume	LC: Up to 240ft ³ ; CF: Up to 60ft ³
Operating Temp. Range	-4°F to 131°F
Purge Timer	Type X—auto 1-99 minutes; Type Y&Z—manual timing
Signal Outputs	Type X—Power interlock, low-pressure alarm; Type Y&Z—low pressure alarm
Connection Options	EX e junction box; IS outputs; pneumatic outputs (for connection to MiniPurge Interface Unit MIU)
Air Inlet	Instrument quality air 60-115 psi

Not all enclosures are created equal

Expo's enclosures are specifically designed to be certified for hazardous area duty using Purge & Pressurization, unlike most mass-produced, off-the-shelf units.

Robust construction & multi-lock doors with elastomer seals ensure low leakage rates and high integrity, meeting UL50E Type 4X ingress protection. Enclosures undergo thorough pressure and leak rate testing prior to shipping, ensuring minimal leakage under normal pressurized conditions.

Here are some of the features available with an Expo enclosure. Most features can be fully customized.



The system shown here, prior to customer fit-out, is equipped with an Expo MiniPurge and interface unit to provide Class I Div.1 protection, with power & signal control.

* Components must carry the appropriate hazardous area certification.

Expo operates in more than 50 countries worldwide. To find out more about how Expo can help you solve your hazardous area problems, get in touch via our website www.expoworldwide.com or through your local channel partner.

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