



## PE3 Purge and Pressurized enclosure Zone 2/22

### Protection mode:

Type of protection: Ex pz IIC T4 Gb  
 Ex p IIIC T135°C Db  
 Class of temperature: T4-T3-T2\*  
 (\*depend of internal and external apparatus)  
 Ambient Temp: -20/+55°C  
 Zones: 1-2-21-22



### Description:

The construction and power dissipation of the internal components are critical to ensuring effective purging, compliance with Temperature Rating and Safe Operation.

Therefore all internal components and details of the PE must be reviewed to determine compliance with the IECEx / ATEX "Schedule of Limitations" (SoL) required for the certificate to apply.

- No need for a Certified / Notified Body
- Accept orders for your apparatus in hazardous locations and increase your market share
- Ease of Certification for the OEM and the User
- Reduced Certification cost
- Reduced time to market
- After review, equipment not complying with the SoL may still be certified with a variation to the certificate

IECEx & ATEX category 3 Certificates to IEC/EN 60079-0 & 60079-2, Zone 2, Ex pz for Purge & Pressurized Enclosures type PE3. The certificate includes for installation of the clients instrumentation and / or electrical apparatus without further reference to the certification body when it complies with the "Schedule of Limitations".

### IECEx and/or ATEX Zone 2 (22) certification with 'Your equipment'.

IECEx - ATEX Certified Purge & Pressurized Enclosure, Type PE3  
 +  
 IECEx - ATEX Certified Purge & Pressurization System  
 +  
 YOUR Equipment within agreed limits  
 +  
 Verification of installation is compliant with the SoL  
 =  
 IECEx &/or ATEX Zone 2 (22)  
 Certification to IEC/EN 60079-0 & -2 Ex px

Where there are Gas & Dust Hazards PE2 can also be certified for both Zones 2 & 22



## PE3 Purge and Pressurized enclosure Zone 2/22

### Technical data:

<b>-Pressure &amp; leakage: Test</b>	Test result with each PE3 To IEC/EN 600479-2	<b>-Sizes:</b>	Purpose built and designed for the application
<b>-Over pressure test:</b>	18mbarg (7"wc) To IEC/EN 600479-2	<b>-Maximum Size:</b>	2.1m H x 1.8m W x 1.0m 0 Approx: 82" H x 70" W x 39" 0 Larger sizes are available, please ask!
<b>-Purge time:</b>	5 volume changes	<b>-Material:</b>	1.5mm to 3mm dependent on the size of the PE 316L Stainless Steel - Finish: NROB Mild (Carbon) Steel - Finish: Powder Coated RAL7035 (Light Grey)
<b>-Purge test:</b>	Alternatively a purge test can be completed to prove effective purging & reduce the Purge time	<b>-Doors:</b>	Front, Back, Side, Top, Bottom or Double doors
<b>-Compliance to general Conditions IEC/EN 60079-0</b>	Includes thermal conditioning of No metallic items, seals, etc resistance to light testing impact 4-7 Joules	<b>-Door fasteners:</b>	Tool Operated 1/4 turn Stainless Steel (does not require a power disconnect door switch) IEC/EN 60079-2
<b>-Schedule of Limitations:</b>	Request SoL PE3, Zone 2 (22)	<b>-Hinges:</b>	Stainless Steel
<b>-Instruments &amp; Electrical:</b>	Most apparatus installed within the PE2 are normally acceptable	<b>-Seals:</b>	Elastomer seals fully compliant v/ith IEC/EN 60079-0
<b>-Ex apparatus temp:</b>	Permitted subject to internal	<b>-Windows:</b>	Polycarbonate Weather Strip or Clamped Laminated Glass Weather Strip or Clamped Maximum size up to 1m2 (Approx: 10.76ft2)
<b>-Effective purge:</b>	Boxed apparatus will require ventilation holes	<b>-Control Devices &amp; Actuators:</b>	Lamps, Push Buttons etc certified
<b>-Power &amp; signals inputs:</b>	Must be capable of being manually disconnected	<b>-Sub-panel (Chassis):</b>	Rear, Slides, Top, Bottom or Door
<b>-Batteries:</b>	Check with production line. Small memory type batteries may be able to be installed	<b>-19" Rack:</b>	Fixed or Swing Frame
<b>-Internal released of flammings gas:</b>	Not normally permitted, please consult. Solutions are available	<b>-Mount Bosses</b>	
<b>-Verification:</b>	Can be completed at the client's or production line premises. Production line will furnish the verification document and certificate label	<b>-Label Slots for Bar code</b>	
<b>-MiniPurge™:</b>	See also MiniPurge type X systems Data Sheets	<b>-Labels or similar</b>	
		<b>-Lifting Eye's</b>	
		<b>-Gland Plates</b>	
		<b>-Mobile PE3e: Anti-Static Wheels</b>	
		<b>-Wall Lugs</b>	
		<b>-Free Standing</b>	
		<b>-Plinths</b>	
		<b>-Keyboards, etc</b>	

