



Photo:
ATEX Zone 2 IIC T4 Cat 3
Ex e PE3E including door,
gland plate, push button and
lamp holes to customer requirements



Certification Overview

Expo ATEX Cat 3 Certificate to EN 60079-0 & 60079-7, Zone 2, Ex e for the populated Expo Increased Safety Enclosure PE3E. The Certificate includes for installation of your instrumentation and / or electrical apparatus when it complies with the applicable standards and regulations.

For applications where there is a potential for hazardous dust as well as gas, certification can include for Zone 2 & Zone 22. The Zone 22 certification can be to EN 60079-31 standard Ex tb. Industries include: Pharmaceutical, Food, Plastic etc.

Increased Safety Enclosure

ATEX Zone 2 (Ex e)

ATEX Zone 2 Certification with "YOUR Ex e EQUIPMENT"

ATEX Certified, Increased Safety Ex e Enclosure,
Type PE3E

+

YOUR Ex e Certified Equipment within
compliance

+

Expo Verify the installation is compliant with the
applicable Standards

=

Expo ATEX Zone 2
Certification to EN 60079-0 & -7 Ex e

Where there are Gas & Dust Hazards PE3E can also
be certified for both Zone 2 (Ex e) & 22 (Ex tc)

Advantages

- + No need for a Certified / Notified Body, ATEX Certificate can be issued by Expo Technologies, the manufacturer
- + Accept orders for your apparatus in hazardous location increase your market share
- + Ease of Certification for the OEM and the User
- + Reduced Certification cost
- + Reduced time to market

Contents of the Enclosure

Ex e terminals, Ex e isolators and other Ex e component and apparatus certified items can be installed when used with the PE3E Increased Safety Enclosures.


The construction and power dissipation of the internal components are critical to ensuring effective compliance with Temperature Rating and Safe Operation. Therefore all internal components and details of the enclosure must be reviewed by Expo Technologies to determine compliance. Thereafter the final installation is to be verified by Expo.



**THORNE &
DERRICK
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CERTIFICATION OF THE PE3E ENCLOSURE

ATEX: Certificate of Conformity No: Expo 15ATEX -----
 II 3 G Ex e IIC T4 Gc [Zone 2]

Ambient Temp:	-20°C, -4°F to 55°C, 131°F
Pressure & Leakage Test:	Each PE3E is tested <i>to validate IP 66</i>
Compliance to General Conditions EN 60079-0	Includes thermal conditioning of Non metallic items, seals, etc resistance to light testing, impact testing 4 -7 Joules
Schedule of Limitations:	Consult Expo
Instruments & Electrical:	Most Ex e component certified apparatus installed within the PE3E are acceptable
Ex Apparatus:	IS terminals and apparatus may also be permitted subject to internal temp
Power & Signals:	Within current limits
Temperature rating:	T4, T3, T2 dependent on internal and external apparatus
Batteries:	Check with Expo. Small memory type batteries may be able to be installed if part of components certified Ex e apparatus
Verification:	Can be completed at the client's or Expo premises. Expo will supply the verification document, certificate and certificate label(s)
Cable entries:	Cable entries permitted by approved cable entry devices cable glands, cable transits and bushings.

PE3E - Ex e COMMON SPECIFICATION

Model Number: PE3E - - - -
PE3E Options:

- + Sizes: Purpose built and designed for the application
- + Material: 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)
- + Doors: Front, Back, Side, Top, Bottom or Double doors
- + Door fasteners: Tool Operated $\frac{1}{4}$ turn Stainless Steel
- + Hinges: Stainless Steel
- + Seals: Elastomer seals fully complaint with
EN 60079-0
- + Windows: Polycarbonate Weather Strip or Laminated
Glass Weather Strip or Clamped
Maximum size up to 1m² (Approx: 10.76ft²)
- + Control Devices
& Actuators: Certified Lamps, Push Buttons, etc
- + Sub-panel (Chassis): Rear, Sides, Top, Bottom or Door
- + 19" Rack: Fixed or Swing Frame
- + Mounting Bosses
- + Lifting Eyes
- + Gland Plates
- + Mobile PE3E: Anti-Static Wheels
- + Wall Lugs
- + Free Standing or Plinths mounted

If you have an application for Hazardous Location, IECEx – ATEX - NEC please feel free to ASK!



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