

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.

Photo:

ATEX Zone 2 IICT4Cat3 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.

TEX© C €ISO 9001

CERTIFICATION OF THE PE3E ENCLOSURE

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

Power & Signals: Within current limits
Ex Apparatus: IS terminals and apparatus may also be permitted subject to internal temp

Pressure & Leakage Test: Each PE3E is tested to *validate IP 66*
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

Cable entries: Cable entries permitted by approved cable entry devices cable glands, cable transits and bushings.

PE3E - Ex e COMMON SPECIFICATION

+ 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

+ 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 ¹/₄ turn Stainless Steel