



Product Data Sheet

PE2e Certification Ex tb

IECEX - ATEX Protection by Enclosure

Ex tb Zone 21, 22 IECEx, Category 2 D ATEX



**IECEX
& ATEX
Zone 21 (22)
CERTIFIED!**

Photo
ATEX Zone 21 IIIC T135°C Cat 2
PE2e, Painted
Certified Ex tb

Certification Overview

Expo holds IECEX & ATEX Certificates to IEC/EN 60079-0, IEC 60079-31 & EN 61241-1, Zone 21 & 22, Ex tb IIIC for the completed Expo "Protection by Enclosure" PE2e. The certificate includes for installation of your instrumentation and / or electrical apparatus without further reference to the certification body when it complies with the Expo "Schedule of Limitations".

Ex t, formerly Ex tD, Protection by Enclosure are for applications where there is a potential flammable *dust* in the hazardous location.

Industries include: Pharmaceutical, Food, Plastic, Metal, etc. Instrument and electrical enclosure are designed to the IEC/EN 60529 for IP rating but for hazardous dust locations they must be subjected to thermal cycling, etc specified within IEC/EN 60079-0 & EN 61241-1 for "Protection by Enclosure" IP6X, for Zone 21 & 22 applications.

Contents of the Protected Enclosure

The construction and power dissipation of the internal components are critical to ensuring compliance with Temperature Rating and Safe Operation. Therefore all internal components and details of the PE must be reviewed by Expo Technologies to determine compliance with the IECEX / ATEX Certificate "Schedule of Limitations" (SoL) required for the certificate to apply. Thereafter the final installation is to be verified by Expo.

Please ask Expo for a copy of the "PE2e, Zone 21/22 Schedule of Limitations".

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IECEX &/or ATEX Zone 21 & 22 Certification with "YOUR Equipment"

**IECEX - ATEX Certified, Expo Dust
Protected by Enclosure, Type PE2e**

+

YOUR Equipment - within agreed limits

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**Expo Verify the installation is
compliant with the SoL**

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**IECEX &/or ATEX Zone 21 (22)
Certification to IEC/EN 60079-0 &
IEC 60079-31 or EN 61241-1, IP6X,
Ex tb**

Formerly Ex tD

Advantages

- + No need for a Certified / Notified Body as the Certificate has been issued to Expo
- + Accept orders for your apparatus in HazLoc 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

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ISO 9001

Technical Specification

IP6X, Protected Enclosure

PE2e – IECEx and ATEX Zone 21 (22)

Model Number: PE2e - - - -

PE2e Options:

- + Sizes: Purpose built and designed for the application
- + Maximum Size: 2.1m H x 1.6m W x 1.0m D
Approx: 82" H x 63" W x 39" D
- + Material: 1.5mm to 3mm dependent on the size of PE2e
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 ¼ turn Stainless Steel
(does not require a power disconnect door switch)
- + Hinges: Stainless Steel
- + Seals: Silicon seals fully compliant with IEC 60079-0
- + Windows: Laminated Glass Clamped
Maximum size up to 1m² (Approx: 10.76ft²)
- + Control Devices & Actuators: Certified: Push Buttons, Lamps, etc
- + Sub-panel (Chassis): Rear, Sides, top, bottom or Door
- + 19" Rack: Fixed or Swing Frame
- + Mounting Bosses
- + Lifting Eye's
- + Gland Plates
- + Mobile PE2e: Anti-Static Wheels
- + Wall Lugs
- + Free Standing
- + Plinths

Certification of the PE2e Enclosure

IECEX: Certificate of Conformity No: IECEX ITS 08.0044X

ATEX: Certificate of Conformity No: ITS10ATEX16944X
Ex tb IIIC T135°C Db IP6X [Zone 21] (formerly Ex tD)

Ambient : -20°C, -4°F to 55°C, 131°F
Temperature

IEC/EN 60529 & : IP66
IEC/EN 60079-0

Compliance to General Conditions
IEC/EN 60079-0 Includes thermal conditioning of
Non metallic items, seals, etc
resistance to light testing
Impact testing 4 – 7 Joules

Schedule of Limitations: Request SoL PE2e, Zone 21 (22)

Special Conditions: Before closing the door dust must
of Safe Use be removed from the inside of the
PE2e and then power can be
applied.

Instruments & electrical: Most apparatus installed within
the PE2e is normally acceptable

Ex Apparatus: Permitted subject to internal temp

Power & Signals: Must be capable of being
manually disconnected

Temperature rating: T135, T200, T300 dependent on
internal and external apparatus

Battery(s): Check with Expo. Small memory
type batteries may be able to be
installed!

Verification: Can be completed at the client's
or Expo premises
Expo will supply the verification
document and certificate label(s)

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

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