

CERTIFICATE OF CONFORMITY

1. HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

2. **Certificate No:** FM23CA0036X
3. **Equipment:** SmartPurge2 Purge Control Unit and SmartPurge2 Remote Control Terminal
(Type Reference and Name)
4. **Name of Listing Company:** Expo Technologies Ltd
5. **Address of Listing Company:** Unit 2, The Summit, Hanworth Road, Sunbury on Thames, Surrey, TW16 5DB, United Kingdom
6. The examination and test results are recorded in confidential report number:
3047764 dated 10th January 2014
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:
CSA C22.2 No. 60079-0:2011, CSA C22.2 No. 60079-2:2012, CSA C22.2 No. 60079-7:2012,
CSA C22.2 No. 60079-11:2011, CSA C22.2 No. 60079-18:2012, CSA C22.2 No. 60529:2005,
CSA C22.2 No. 61010-1:2004
8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.
10. **Equipment Ratings:**
See Annex
11. **The marking of the equipment shall include:**
See Annex
12. **Description of Equipment:**

Certificate issued by:

J.E. Marquardt

J.E. Marquardt
VP, Manager - Electrical Systems

21 November 2025

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA

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F 348 (Jul 24)



SCHEDULE

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FM Approvals

The SmartPurge 2 (SP2) is an electronic purge and pressurization control system consisting of a Control Unit containing the following: a power supply and switching module, a flow and pressure measuring unit and an electronic control unit. A display is provided for monitoring the status and for use during set-up.

Three versions of the SmartPurge2 are available, as a purge and pressurize control unit (P), as a fan control unit (F), and as a control unit with remote orifice (R). These versions are available with a universal voltage (M) or a low voltage (L) power supply. The SmartPurge 2 is housed within a stainless steel enclosure with an ingress protection rating of IP64.

The system can be connected to an optional Remote Panel which is housed in an aluminium enclosure. The maximum service temperature is 60 °C.

See Annex for additional details.

13. Specific Conditions of Use:

See Annex

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals Canadian Certification Scheme.

15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
10 January 2014	Original Issue.
24 July 2023	<u>Supplement 1:</u> Report Reference: PR465043 dated 24 July 2023. Description of the Change(s): Converted to new certificate format.
21 November 2025	<u>Supplement 2:</u> Report Reference: PR469170 dated 21 November 2025. Description of the Change(s): Addition of alternative encapsulation materials and revise model code to reference remote orifice option

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ANNEX

SP2-ab-SS SmartPurge2 Purge Control Unit

Equipment Ratings:

Suitable for Class I, Zone 1 protected by increased safety, intrinsic safety and encapsulation and as associated pressurization equipment Ex e ib m [p] IIC T4 with an ambient temperature rating of -20°C to +60°C hazardous Locations (indoors/outdoors - IP64) when installed per control drawing SD8113.

Markings:

Ex e ib m [p] IIC T4 Gb -20°C ≤ Ta ≤ 60°C; - SD8113; Entity

Description of Equipment:

SP2-ab-SS SmartPurge2 Purge Control Unit

a = P, F or R, System type

b = M or L, Supply voltage

Power Supply (Terminals 1, 2): 90-254 Vac or 11-28 Vdc

Um = 254 Vac

Power Switching (Terminals 3, 4) 6 A at 250 Vac
5 A at 30 Vdc

Alarm Contact ratings (Terminals 5, 6 and 7, 8): 250V, 1A

Fuse type (Terminals 9, 10): 100 mA (when b = M)
500 mA (when b = L)

Entity parameters:

	Terminal TB1	U ₀ (Vdc)	I ₀ (mA)	C ₀ (μF)	L ₀ (mH)	P ₀ (W)
SOV	1,2	23.58	165.5	0.091	2.9	0.975
IP	3,4	23.58	165.5	0.091	2.9	0.975
Remote Output	9,10,11,12	8.465	405.1	5.145	0.48	0.857
External alarm	5,6	5.88	5.9	21.5	1020	0.009
Over-ride	7,8	5.88	5.9	21.5	1020	0.009

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Specific Conditions of Use:

The non-metallic window may store electrostatic charge and become a source of ignition in applications with a low relative humidity <~30% relative humidity. Guidance on protection against the risk of ignition due to electrostatic discharge can be found in IEC TS 60079-32-1. Cleaning of the window should only be done with a damp cloth.

SP2-RP SmartPurge2 Remote Control Terminal

Equipment Ratings:

Intrinsically safe for Class I, Zone 1, Ex ib IIC T4 with an ambient temperature rating of -20°C to +60°C using the Entity concept when installed in accordance with Control Drawing SD8113.

Markings:

Ex ib IIC T4 Ta = -20°C to 60°C — SD8113; Entity

Description of Equipment:

SP2-RP SmartPurge2 Remote Control Terminal

Entity parameters

Ui (Vdc)	Ii (mA)	Ci (μF)	Li (mH)	Pi (W)
8.465	405.1	5.145	0.48	0.857

Specific Conditions of Use:

The powder coated surface and the non-metallic window of the SmartPurge 2 Remote Control Terminal may store electrostatic charge and become a source of ignition in applications with a low relative humidity <~30% relative humidity where the surface is relatively free of surface contamination such as dirt, dust, or oil. Guidance on protection against the risk of ignition due to electrostatic discharge can be found in IEC TS 60079-32-1. Cleaning of the powder coated surface and window should only be done with a damp cloth.

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Page 4 of 4