
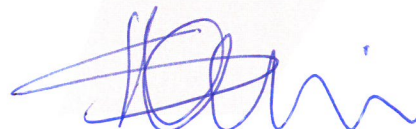


1. **ATEX CAT 3G Conformity Certificate.**
2. **Equipment intended for use in potentially explosive atmospheres**
3. **Certificate Number:** ExVeritas 16ATEX0185X **Issue:** 1
4. **Equipment:** atmosFIR EX Zone 2
5. **Customer:** Extronics Ltd.
6. **Address:**
1 Dalton Way,
Midpoint 18
Middlewich
Cheshire
CW10 0HU
UK
7. **This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to. The assessments are recorded in ExVeritas project file number EXV0949**
8. **The equipment has been assessed against the requirements of the EN 60079-0:2012 and EN 60079-2:2014 at the latest editions and found to comply**
9. **ExVeritas takes no responsibility for the validity of any information or data supplied by the manufacturer on which parts of the assessment may be based upon**
10. **ATEX Coding:**  II 3 G Ex pzc IIC T4 Gc T_{amb} -20°C to +45°C



No. 8613

On behalf of ExVeritas

A handwritten signature in blue ink, appearing to read 'S D'Henin'.

S D'Henin
Certification Manager

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Schedule

11. Description

The atmosFIR EX is a 316 stainless steel purged and pressurised cabinet, containing an analyser and associated sampling system for flammable & non-flammable industrial gasses. The enclosure measures approximately 1950mm tall by 650mm wide by 765mm deep. Access to the enclosure is via two hinged doors, each of which is secured with 10 quarter turn panel key operated compression locks. Sample lines are fitted via Swagelok fittings installed into gland plates fitted to the side or base of the enclosure. Electrical connections are via suitable glands fitted via plain holes in the gland plates. The door to the front of the enclosure is fitted with a laminated glass window with an LCD display fitted internally.

Purge control is via the Extronics iPurge Zone 1 or Zone 2 Purge Controller.

The following purge parameters apply:

Minimum purge flow rate:	200 L/min
Minimum purge time:	25 minutes
Protective gas:	Compressed air
Minimum overpressure:	6mBar
Maximum overpressure:	14 mBar
Minimum supply pressure:	4 Bar
Maximum supply pressure:	6 Bar
Maximum leakage rate:	29 L/min
Maximum gas sample pressure:	5mBar

12. Descriptive Documents

12.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R0949/A/1	07/11/2016	1	Initial issue of the Prime Certificate

12.2 Compliance Drawings:

Issue 1

Number	Date	Issue	Description
417416	2016-10-21	REL1.0	Purged Enclosure Certification Label atmosFIR
417307	2016-10-21	REL1.0	Purged Enclosure Certification Drawing atmosFIR (Sheets 1 to 2)
418183	2016-10-21	REL1.0	Purged system safety instruction atmosFIR (Sheets 1 to 16)



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Schedule

13. Conditions Certification

13.1 Special Conditions for Safe Use

- The sampling system uses a safety relief valve to limit the sample pressure within the sample lines connected to the purged enclosure. The pressure at which this valve operates is nominally 5mbar, the actual opening pressure shall be recorded and the minimum overpressure on the purge control unit shall be set at least 0.5mbar above the measured value but not less than 6mbar.

13.2 Condition for use (Routine tests)

The manufacturer shall verify the following:

- Functional Test – EN 60079-2:2014 clause 17.1. – The performance of safety devices shall be verified.
- Leakage Test – EN 60079-2:2014 Clause 17.2 – The leakage of the protective gas shall be tested. The enclosure shall be pressurized to the maximum overpressure for normal service. With any outlet apertures closed, the leakage flow rate shall be measured at the inlet aperture. The measured flow rate shall be not greater than the maximum leakage flow rate specified by the manufacturer of 29L/min.

14. Essential Health and Safety Requirements

Essential Health and Safety Requirements are addressed by the standards listed in section 8 and where required the report listed in section 12.1



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