



1. EC-TYPE EXAMINATION CERTIFICATE

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**
3. **EC-Type Examination Certificate Number:** ITS12ATEX17703X
4. **Equipment or Protective System:** XMTC Gas Analyser and XMO2 Oxygen Analyser
5. **Manufacturer:** GE Infrastructure Sensing
6. **Address:** 1100 Technology Park Drive, Billerica, MA, 01821
7. This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
8. Intertek Testing and Certification Limited, notified body number 0359 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Intertek Report Ref 100911958MAN-001 dated July 2013.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 60079-0:2012 and EN 60079-1:2007 except in respect of those requirements referred to at item 18 of the Schedule.
10. If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
11. This EC-Type examination certificate relates only to the design and construction of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
12. The marking of the equipment or protective system shall include the following:-



II 2 G Ex d IIC T6 Gb
(Tamb: -20°C to +65°C) for the XMTC
(Tamb: -20°C to +55°C) for the XMO2

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K R Spence
Certification Officer
26 July 2013



SCHEDULE

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15. **Description of Equipment or Protective System**

The XMTC and XMO2 are cylindrical flameproof enclosures that can be made from either stainless steel or a powder coated aluminium alloy. The equipment is approximately 140 mm in diameter and approximately 210mm from base to lid, excluding the protrusions used for opening and closing the enclosure and the flame arrestors on the bottom. The flame arrestors are certified and covered by certificate number ITS12ATEX90013U.

The XMTC measures the concentration of a gas in a binary gas mixture by measuring the thermal conductivity of the sample gas and comparing it to the thermal conductivity of a selected reference gas. The XMO2 measures the concentration of oxygen in a gas mixture by utilizing the unique paramagnetic properties of oxygen. Both models utilise 3/4" NPT entries into the enclosures.

The equipment is earthed internally and externally via screwed earthing connections and are clearly marked on the enclosures. Both the XMO2 and the XMTC are rated 24Vdc, 25 Watts.

16. **Report Number**

Intertek Report Ref: 100911958MAN-001 dated: July 2013

17. **Conditions of Certification**

(a). Special Conditions for safe use

- Only suitably approved Ex d IIC Gb cable glands and blanking elements suitable for the ambient temperature range shall be used.
- No modifications must be made to the flamepaths of the unit without consultation of the manufactures drawings.

(b). Conditions of Manufacture

- None

18. **Essential Health and Safety Requirements (EHSR's)**

The relevant EHSR's have been identified and assessed in Intertek Report Ref: 100911958MAN-001 dated July 2013

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19. Drawings and Documents

Number	Title	Issue	Date
752-168	Certification Drawing XMO2, XMTC (Sheets 1 to 4)	E	12/1/12
910-141	Certification & Safety Statements for the XMO2 Oxygen Analyser (Sheets 1 & 2)	A	May 2013
CSS-0006	Certification & Safety Statements for the XMTC Gas Analyser (Sheets 1 & 2)	A	May 2013

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

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