

CERTIFICATE OF CONFORMITY



- HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS**
- Certificate No:** FM17CA0028X
- Equipment:** In-Situ Laser Spectroscopic Gas Concentration Analyzer
(Type Reference and Name) SITRANS SL 7MB6221
- Name of Listing Company:** Siemens AG
- Address of Listing Company:** Process Industries and Drives
Process Automation
DE-76181 Karlsruhe
Germany
- The examination and test results are recorded in confidential report number:

3044593C dated 22nd November 2013
- 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. 0.4:R2009, CSA-C22.2 No. 0.5:R2012, CSA-C22.2 No. 25:R2009, CSA-C22.2 No. 30:R2012, CSA-C22.2 No. 94:R2011, CSA-C22.2 No. 60529:2010, CAN/CSA-C22.2 No. 60079-0:2011, CAN/CSA-C22.2 No. 60079-1:2011, CAN/CSA-C22.2 No. 60079-31:2012
- 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.
- 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.
- Equipment Ratings:**
Explosionproof for Class I, Division 1, Groups C and D, Temperature Class T6 Ta=55°C; Flameproof for Class I, Zone 1, Ex db IIC T6 Gb Ta=55°C; Dust-ignitionproof for Class II/III, Division 1, Groups E, F and G, Temperature Class T6 Ta = 55°C; and Protection by Enclosure for Zone 21 Ex tb IIIC T85°C Db Ta = 55°C; indoors and outdoors (Type 4X, IP65).

Certificate issued by:

J. E. Marquedant
Manager, Electrical Systems

30 May 2017

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, 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
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SCHEDULE



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11. The marking of the equipment shall include:

Class I, Division 1, Groups C, D; T6 Ta = 55°C;

Class I, Zone 1 Ex db IIC T6 Gb Ta=55°C;

Class II/III, Division 1, Groups E, F, G, T6 Ta = 55°C;

Zone 21, Ex tb IIIC T85°C Db Ta = 55°C

Type 4X, IP65

12. **Description of Equipment:**

The SITRANS SL 7MB6221 In-Situ Laser Spectroscopic Gas Concentration Analyzers are described in FM Approvals Projects 3033984, 3044593 and their supplements.

SITRANS SL is a diode laser gas analyzer with a measuring principle based on the specific light absorption of different gas components. SITRANS SL is suitable for fast and non-contact measurement of gas concentrations in process or flue gases.

Operational Temperature Ranges: The ambient temperature range for the SITRANS SL 7MB6221 In-Situ Laser Spectroscopic Gas Concentration Analyzers is -20°C to +55°C.

Electrical Data: The input supply for the SITRANS SL 7MB6221 In-Situ Laser Spectroscopic Gas Concentration Analyzers is 24 VDC nominal, 30.2 VDC maximum. The maximum rated power consumption is 10 Watts.

Maximum Working Pressure Rating: The maximum working pressure rating of the SITRANS SL 7MB6221 In-Situ Laser Spectroscopic Gas Concentration Analyzers in measuring mode is 5 bar. The maximum process pressure rating is 25 bar (at +20°C).

SITRANS SL 7MB6221-abcde-fghj/k. In-Situ Laser Spectroscopic Gas Concentration Analyzer.

a = Protection: 2.

b = Measured Component: A, B, C, D, E, F, G, H, J, K, L, M or N.

c = Application: A, B, C, D, E, F, G, H, J or P.

d = Communication Interface: 0, 1 or 2.

e = Purging Tubes: 0, 1, 2, 3 or 4.

f = Purging Mode: 0, 1, 2, 3, 4 or 5.

g = Process Interface: A, B, C, D or X.

h = Loop Cable: X.

j = Language: 0, 1, 2, 3 or 4.

k = Further Versions: C12-100, C13-101, C20-100, Y30-230 or R01-100.

13. **Specific Conditions of Use:**

1. Consult the manufacturer for dimensional information on the flameproof joints for repair.
2. Painted surface of the SITRANS SL may store electrostatic charge and become a source of ignition in applications with a low relative humidity <~30% relative humidity where the painted surface is relatively free of surface contamination such as dirt, dust or oil. Cleaning of the painted surface should only be done with a damp cloth.
3. The SITRANS SL Analyzers are for process measurement and control use and shall not measure Oxygen concentrations greater than 21 Vol. %.

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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
22 nd November 2013	Original Issue.
30 th May 2017	Supplement 2: Report Reference: – RR208498 dated 30 th May 2017. Description of the Change: Changing the address on the certificate to Siemens AG, Process Industries and Drives, Process Automation, DE-76181 Karlsruhe, Germany.

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