

CERTIFICATE OF CONFORMITY

1. HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

2. **Certificate No:** FM18CA0058
3. **Equipment:** Model TS121LP Oxygen Transmitter
(Type Reference and Name)
4. **Name of Listing Company:** Endress+Hauser SICK GmbH+Co. KG
5. **Address of Listing Company:** Bergener Ring 27, Ottendorf-Okrilla, 01458, Germany

6. The examination and test results are recorded in confidential report number:

3041321 dated 6th May 2011

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. 213:2022, CSA C22.2 No. 60529:R2021, CSA C22.2 No. 61010-1:2019

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:

Transmitter: Nonincendive for Class 1, Division 2, Groups A, B, C and D, Ta= -20°C to +60°C

Sensor: Suitable for Class I, Division 1, Groups A, B, C and D, Ta= -20°C to +80°C

Enclosure rating; IP66.

11. The marking of the equipment shall include:

Transmitter:

Class I Division 2, Groups A, B, C, D; T4 Ta = -20°C to +60°C; IP66

Sensor:

Class I, Division 1, Groups A, B, C and D T4 Ta = -20°C to +80°C; IP66

Certificate issued by:

J.E. Marquedant

J.E. Marquedant
VP, Manager - Electrical Systems

9 March 2026

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

T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmaprovals.com www.fmaprovals.com

F 348 (Jul 24)



SCHEDULE

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FM Approvals

12. Description of Equipment:

General - The TS121LP Oxygen Transmitter utilizes a tunable diode laser gas spectrometer, built into a measurement probe, to measure the oxygen content of process gases. The Transmitter comprises an aluminum enclosure and welded stainless steel temperature sensing probe Approved for installation in a Division 2 hazardous location, and a stainless steel cylindrical probe Approved for in-pipe installation in a Division 1 hazardous location. The aluminum enclosure houses the Transmitter's electronics and a laser diode. The Transmitter's oxygen sensing probe contains a mirror for reflecting the laser's output back to the Transmitter. The laser radiation is enclosed within the enclosure and is not accessible without disassembling the equipment with the use of a tool.

Ratings - The equipment operates from a supply voltage of 11 to 36 VDC. The Transmitter's electronics are rated for operation over an ambient temperature range of -20°C to 60°C. The Transmitter's oxygen sensing probe is rated for use over an ambient temperature range of -20°C to 80°C.

TS121LPabcdefghijk. Oxygen Transmitter

a = Installation type: A, B, C, F, G or H
b = Filter type: 1, 2 or 3
c = Analog output range for oxygen: A, B, C, D, E or X
d = Signal output: 1 or 2
e = Fault state current for analog output: A or B
f = Relay settings: 1, 2, 3 or 4
g = Cable bushing: A or B
h = In-line calibration option: 1 or 2
i = Operating manual language: B, D, F or I
j = Approval: 1
k = Wetted O-Rings: B(FFKM), C(FKM), F(FFKM), or G(FKM).

13. Specific Conditions of Use:

None

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:

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Date	Description
6 May 2011	Original Issue.
20 May 2018	<u>Supplement 3:</u> Report Reference: – RR213716 dated 20 May 2018 Description of the Change: Hardware Modifications to TS121LP, Extend type code Stop of current laser diode supply, document clean up, change of supplier for sealing O2 sensor. Reformat into new Style Certificate.
18 March 2025	<u>Supplement 4:</u> Report Reference: RR244896 dated 18 March 2025. Description of the Change(s): Company name change. Documentation updates. Certificate reformatted.
9 March 2026	<u>Supplement 5:</u> Report Reference: PR475629 dated 9 March 2026. Description of the Change(s): 1. Addition of alternative, machined aluminum housing 2. CSA C22.2 No. 213:1987(R2013) updated to CSA C22.2 No. 213:2022 3. CSA C22.2 No. 61010-1:2012 updated to CSA C22.2 No. 61010-1:2019 4. CSA C22.2 No. 60529:2005(R2010) updated to CSA C22.2 No. 60529:R2021

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