


# CERTIFICATE OF CONFORMITY



1. **UNCLASSIFIED LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** FM17US0305X
3. **Equipment:** Open Path gas detector  
**(Type Reference and Name)** OTR 00\*\*
4. **Name of Listing Company:** Dräger Safety AG & Co. KGaA
5. **Address of Listing Company:** Revalstrasse 1  
23560 Luebeck  
Germany
6. The examination and test results are recorded in confidential report number:  
  
3051474 dated 26th October 2017
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:  
  
FM Class 6325: 2007 (R2014), ANSI/ISA-12.13.04:2014, IEC 60079-29-4:2009
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:**  
  
-40°C to +60°C, IP66/67, 18-32Vdc
11. The marking of the equipment shall include:  
  
IEC60079-29-4

**Certificate issued by:**

  
\_\_\_\_\_  
J. E. Marquedant  
VP, Manager, Electrical Systems

28 January 2019  
\_\_\_\_\_  
Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://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  
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: [information@fmapprovals.com](mailto:information@fmapprovals.com) [www.fmapprovals.com](http://www.fmapprovals.com)

# SCHEDULE



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## 12. Description of Equipment:

The Open Path Gas Detector, type OTR 00\*\* comprising of an external junction box, a mounting plate, a weather shield and two devices (transmitter and receiver module) operating over a distance of 1-8 meters, 4-60 meters, 30-120 meters and 100-200 meters depending on the model selected, with configurable upper range value between 4 to 8 LEL•m. The OTR 00\*\* is performance approved for unclassified indoor/outdoor locations only. The operating temperature range is -40°C to +60°C (tested at 55°C to +65°C).

The equipment contains control, measurement and monitoring electronic.

The transmitter enclosure contains a xenon discharge tube that emits pulses of optical radiation, which are picked up by the receiver circuitry in the second enclosure, enabling the gas in the path of the beam to be analyzed. Inside of the housing a heater is installed close to the lens in order to prevent condensation of the lens at certain temperatures.

OTR 0 0 \* \*  
1 2 3 4

1: 0

2: 0

3: Type of Construction

0 = Transmitter very short range

1 = Transmitter short range

2 = Transmitter long range

3 = Receiver very short, Methane & Propane

4 = Receiver very short, Ethylene & Methane

5 = Receiver short range, Methane & Propane

6 = Receiver short range, Ethylene & Methane

7 = Receiver long range, Methane & Propane

4: Interface + Approval

0 = No interface, ATEX & IECEX

1 = 4 – 20 mA, ATEX & IECEX

Rx firmware version 1.1.5

Tx firmware version 1.1.4

## 13. Specific Conditions of Use:

1. Performance evaluation only

## 14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

## 15. Schedule Drawings

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

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## 16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
26 <sup>th</sup> October 2017	Original Issue.
28 <sup>th</sup> January 2019	Supplement 1: Report Reference: – PR450292 dated 28 <sup>th</sup> January 2019 Description of the Change: Changes to mounting bracket, updates to firmware and addition of a diffusor model.

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