



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx TUR 20.0049X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2020-10-19		
Applicant:	Dräger Safety AG & Co KGaA Revalstr. 1, 23560 Lübeck Germany		
Equipment:	Gas Transmitter types ITR 0*** (Polytron P8700)		
Optional accessory:			
Type of Protection:	Gas performance tests		
Marking:	60079-29-1 Year of production		

Approved for issue on behalf of the IECEx
Certification Body:

Andreas Maschke

Position:

Deputy Head of Certification Body

Signature:
(for printed version)

Date:

2020-10-19

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

TUV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Cologne
Germany





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Manufacturer: **Dräger Safety AG & Co KGaA**
Revalstr. 1, 23560 Lübeck
Germany

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC Explosive atmospheres – Part 29-1: Gas detectors – Performance requirements of detectors for flammable
60079-29-1:2016-07 gases
Edition:2.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/TUR/ExTR20.0049/00](#)

Quality Assessment Report:

[DE/BVS/QAR06.0001/14](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The transmitters ITR 04** and ITR 05** (Polytron 8700) are fixed infrared gas detectors intended for continuously measuring of combustible or non-combustible gases and vapours. The enclosure consists of aluminium (ITR 04**) or stainless steel (ITR 05**). The infrared sensor IDS 01** (PIR 7000) may be directly connected to the transmitter housing or operated as remote sensor with junction box EAC 01** or other junction boxes. The gas detector provides a 4 to 20 mA analog output signal for safety relevant purposes proportional to the measured gas concentration. The transmitter can be equipped with a relay module providing two alarm relays and one fault relay.

Measuring Function for Explosive Protection

Measuring function for transmitter type ITR 041* and ITR 051* with sensor type IDS 01*1 (type 334) as well as transmitter type ITR 042* and ITR 052* with sensor type IDS 01*2 (type 340) for those gases and vapours as listed in IECEx TUR 20.0048X von PIR 7000 issued for IDS 01** (PIR 7000).

Transmitter:

ITR 041*	Polytron 8700	aluminium enclosure	with PIR 7000	334
ITR 042*	Polytron 8700	aluminium enclosure	with PIR 7000	340
ITR 051*	Polytron 8700	stainless steel enclosure	with PIR 7000	334
ITR 052*	Polytron 8700	stainless steel enclosure	with PIR 7000	340

* = interface: 0 = "d", 4-20mA
1 = "d", 4-20mA with relays
I = "d" + "e", 4-20mA
J = "d" + "e", 4-20mA with relays

Sensor:

IDS 0101	PIR 7000	NPT	334	via junction box EAC 01** or others junction box
IDS 0102	PIR 7000	NPT	340	via junction box EAC 01** or others junction box
IDS 0111	PIR 7000	M25	334	via other junction box

Accessories

- Spacer (part-no. 68 12 617)
- Mounting set PIR 7000 (part-no. 68 11 648)
- Splash guard PIR 7000 (part-no. 68 11 911)
- Insect guard PIR 7000 (part-no. 68 11 609)
- Hydrophobic filter PIR 7000 (part-no. 68 11 890)
- Calibration adapter PIR 7000 (part-no. 68 11 610)
- Status display PIR 7000 (part-no. 68 11 625)
- Flowcell PIR 7000 (part-no. 68 11 490)
- Process adapter PIR 7000 (part-no. 68 11 915)
- Process adapter PIR 7000 SGR (part-no. 68 13 349)
- Process cuvette PIR 7000 (part-no. 68 11 415)
- Process cuvette PIR 7000 SGR (part-no. 68 13 219)
- Junction box Ex e (part-no. 68 11 751)
- Junction box Ex d (part-no. 45 20 561)
- Magnetic wand (part-no. 45 44 101)

Extended ranges:

Extended ranges from operating conditions required by IEC 60079-29-1 are:

- ambient temperature: -40 °C to +77 °C
- ambient pressure: 70 kPa to 130 kPa
- humidity of the measured gas: 0 % RH to 95 % RH

SPECIFIC CONDITIONS OF USE: YES as shown below:

- See IECEx PTB 11.0005X
- See IECEx TUR 20.0048X
- If operated with a relay module
 - The main alarm shall be configured "latching" and "non-acknowledgeable" or "pre-acknowledgeable".
 - The pre-alarm shall only be configured "acknowledgeable" if it is used for operation of an acoustic alarm device.