



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 EPS 13.0006X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2013-05-21)

Status: **Current** Issue No: 1

Date of Issue: 2021-07-29

Applicant: **ECOM Instruments GmbH**
Industriestrasse 2
97959 Assamstadt
Germany

Equipment: **Infrared Thermometer FLUKE 568 EX**

Optional accessory:

Type of Protection: **Intrinsic safety "i"**

Marking: Ex ia op is IIC T4 Gb

Approved for issue on behalf of the IECEx
Certification Body:

Holger Schaffer

Position:

Certification Manager

Signature:
(for printed version)

Date:

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:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





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Manufacturer: **ECOM Instruments GmbH**
Industriestrasse 2
97959 Assamstadt
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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-28:2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

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/EPS/ExTR13.0006/01](#)

Quality Assessment Report:

[DE/PTB/QAR06.0008/16](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Infrared and Contact Thermometer is a handheld device supplied by two primary batteries. In the noncontact case the thermometer determines an object's surface temperature by measuring the amount of infrared energy radiated by the measured object's surface. The thermometer also supports contact-temperature measurement via a K-type thermocouple. It is allowed to measure contactless into zone 0. It is not allowed to bring the device itself into zone 0. The IR-thermometer uses a laser diode to determine the measurement point or area. The measured temperature is indicated on a display and stored in an internal memory. The stored data can be reread on the display.

Equipment:

- Hard Case of type 568 EX
- Probe of type 80PK-1

Electrical data:

Supply:

Two specially certified Alkaline-Manganese Dioxide Batteries Type AAA (LR03) in series (see safety instructions).
Nominal voltage each 1.5 V

Laserdiode:

Optical power < 12 mW

SPECIFIC CONDITIONS OF USE: YES as shown below:

Ambient temperature range $0^{\circ}\text{C} < T_a < 50^{\circ}\text{C}$.

The IR-Thermometer shall only be used with the leather wrapper (LH568) around the hand grip.

The device must not be opened inside the Ex-area.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Update of standards, "op is" added.

Additional type approved batteries added (see safety instructions). Alternate LCD module added.