



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 IBE 17.0001X**

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Certificate history:

Status: **Current**

Issue No: 3

Issue 2 (2024-09-12)

Issue 1 (2023-11-16)

Issue 0 (2017-03-14)

Date of Issue: 2025-05-12

Applicant: **Katronic GmbH & Co. KG**
Gießbergweg 5
Wernigerode 38855
Germany

Equipment: **Ultrasonic Flowmeter type KATflow 170**

Optional accessory:

Type of Protection: **Flameproof enclosure "d" and increased safety "e"**

Marking: **Ex db eb IIC T6 Gb**
-20 °C ≤ T_{amb} ≤ +60 °C

Approved for issue on behalf of the IECEx
Certification Body:

Dr.-Ing. Peter Cimalla

Position:

Deputy Head of department Certification Body

Signature:
(for printed version)

Date:
(for printed version)

2025-05-12

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:

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg
Germany





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Manufacturer: **Katronic GmbH & Co. KG**
Gießbergweg 5
Wernigerode 38855
Germany

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 60079-1:2014 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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 Reports:

DE/IBE/ExTR16.0037/00
DE/IBE/ExTR16.0037/03

DE/IBE/ExTR16.0037/01

DE/IBE/ExTR16.0037/02

Quality Assessment Report:

GB/EXV/QAR23.0009/01



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Ultrasonic Flowmeter type KATflow 170 is intended for the measurement of the flow of process media in pipes or conduits.

The equipment consists of a flameproof enclosure and a terminal compartment in type of protection increased safety. All printed circuit boards are assembled in the flameproof enclosure. The termination compartment serves for the connection of the power supply as well as the separately certified sonic transducers.

Technical data:

Nominal voltage:	100...240 V AC (50/60 Hz), 9...36 V DC
Power input:	max. 5 W
Output values for ultrasonic transducer:	max. 330 V, max. 4 MHz
Degree of protection:	IP66 according to IEC 60529
Ambient temperature range:	-20 °C up to +60 °C

SPECIFIC CONDITIONS OF USE: YES as shown below:

Repairs of the flameproof joints must be made in compliance with the constructive specifications provided by the manufacturer. A repair according to IEC 60079-1, Table 2 and 3 is not permitted.

Equipment with damaged glass plate has to be taken out of operation immediately.

Unneeded openings for cable entries have to be closed durably with suitable plugs which comply with the requirements of the corresponding type of protection and the required EPL.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

The change of the company name from Katronic AG & Co. KG to Katronic GmbH & Co. KG was carried out.