



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx IBE 17.0001X Issue No: 0 Certificate history:  
Status: Current Page 1 of 3 Issue No. 0 (2017-03-14)  
Date of Issue: 2017-03-14  
Applicant: Katronic AG & Co. KG  
Gießenerweg 5  
38855 Wernigerode  
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<sub>amb</sub> ≤ +60 °C

Approved for issue on behalf of the IECEx  
Certification Body:

Prof. Dr. Tammo Redeker

Position:

Head of certification body

Signature:  
(for printed version)

Date:

2017-03-14

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

IBExU Institut für Sicherheitstechnik GmbH  
Certification Body  
Fuchsmühlenweg 7  
09599 Freiberg  
Germany





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Manufacturer: **Katron AG & Co. KG**  
Gießergeweg 5  
38855 Wernigerode  
Germany

Additional Manufacturing location(s):

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 electrical apparatus 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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-7 : 2015</b> Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical 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/IBE/ExTR16.0037/00

Quality Assessment Report:

GB/EMT/QAR16.0006/00





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## Schedule

### 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.