



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 INE 21.0040X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2023-01-26
Applicant: **BÜRKERT SAS**
20 Rue du Giessen
67220 TRIEMBACH AU VAL
France
Equipment: **Flowmeter type 8098 FLOWave S**
Optional accessory:
Type of Protection: **Ex ec / Ex tc**
Marking: Ex ec IIC T4 Gc
Ex tc IIIC T130°C Dc

Approved for issue on behalf of the IECEx
Certification Body:

Position:

Signature:
(for printed version)

Date:
(for printed version)

Thierry HOUÉIX

Ex Certification Officer

Signé électroniquement
Digitally signed by
Thierry HOUÉIX
Ex Certification Officer
Délégué Certification



2023-01-27

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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:

INERIS
Institut National de l'Environnement Industriel et des Risques
BP n2 / Parc Technologique ALATA
F-60550 Verneuil-en-Halatte
France



controlling risks |
for sustainable development



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Manufacturer: **BÜRKERT SAS**
20 Rue du Giessen
67220 TRIEMBACH AU VAL
France

Manufacturing locations: **BÜRKERT SAS**
20 Rue du Giessen
67220 TRIEMBACH AU VAL
France

Bürkert Werke GmbH & Co. KG
Keltenstraße 10
74653 Ingelfingen
Germany

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 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

[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 Report:

[FR/INE/ExTR21.0026/00](#)

Quality Assessment Report:

[DE/PTB/QAR07.0002/11](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The flowmeter Type 8098 with type of protection Ex ec and Ex tc for Group II, is qualified for fixed installation in hazardous area classified Zone 2, gas group IIC and dust group IIIC with a temperature ambient range of $-10^{\circ}\text{C} < T_a < +60^{\circ}\text{C}$.

It is composed of a tube in stainless steel equipped with sensors connected to the head with electronic devices and a specific connector.

These enclosure get the degrees of protection IP64 in accordance with the standard IEC 60529.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply connection to the equipment.
- The product shall be used in an environment of not more than Pollution Degree 2 as defined in IEC 60664-1.
- The connector shall not be disconnected while flowmeter is energized. And when the connector is unmatched, a protective cap shall be installed.
- The mating female connector (not part of the certification) must comply with the requirements of IEC 60079-0, IEC 60079-7, IEC 60079-31. The mating female connector must be at least IP65 and be suitable for the application (gas/dust group, Tamb...).
- The maximum ambient temperature depends on the fluid temperature, see table of parameter relating to safety in annex of the certificate.
- Do not use the product in dust atmospheres in which intensive charging processes can be expected. To clean the product surface, gently wipe the surface with a damp cloth or anti-static cloth.

Annex:

[IECEX INE 21.0040X-00_Annex_1.pdf](#)



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Annex: IECEx INE 21.0040X-00_Annex.pdf

PARAMETERS RELATING TO THE SAFETY

Rated voltage: 35 VDC

Ambient Temperature	Fluid Temperature
-10°C ÷ +60°C	-20°C to 100°C
-10°C ÷ +55°C	-20°C to 110°C
-10°C ÷ +50°C	-20°C to 120°C (*)
-10°C ÷ +45°C	-20°C to 130°C (*)

(*) Operation is allowed for one hour maximum

MARKING

Marking has to be readable and indelible; it has to include the following indications:

- BÜRKERT
- 74653 Ingelfingen GERMANY or 67220 Triembach-au-val FRANCE
- 8098 FLOWave S
- IECEx INE 21.0040X
- (Serial number)
- Ex ec IIC T4 Gc
- Ex tc IIIC T130°C Dc
- Tamb. : -10°C to +60°C (*)
- T cable = 85°C
- WARNINGS:
 - DO NOT CONNECT OR DISCONNECT WHEN ENERGIZED
 - DO NOT OPEN WHEN ENERGIZED
 - POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTION (Only for dust atmosphere)

(*) see table in parameters relating to the safety

ROUTINE EXAMINATIONS AND TESTS

A test of dielectric strength must be performed in accordance with clause 7.1 of the IEC 60079-7 standard. For Level of Protection “ec”, where there is a routine dielectric strength test in the relevant industrial standard for the connector of electrical equipment, this test is acceptable.