



# 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](http://www.iecex.com)

Certificate No.: **IECEX LCIE 21.0002X** Page 1 of 4 Certificate history:  
 Status: **Current** Issue No: 2 [Issue 1 \(2023-01-11\)](#)  
[Issue 0 \(2021-06-24\)](#)  
 Date of Issue: 2025-05-27  
 Applicant: **BÜRKERT SAS**  
 20 Rue du Giessen  
 67220 TRIEMBACH AU VAL  
 France  
 Equipment: **Flowmeter - Type: 8098 series**  
 Optional accessory:  
 Type of Protection: **Ex ec and Ex tc**  
 Marking: Ex ec IIC T4 Gc  
 Ex tc IIIC T110°C Dc or T130°C Dc  
 (Refer to attachment for full marking).

ML Version: C Status: RL (released | freigegeben) printed: 23.03.2026  
ABD 1000538342

Approved for issue on behalf of the IECEx  
 Certification Body:  
 Position:  
 Signature:  
 (for printed version)  
 Date:  
 (for printed version)

**Julien GAUTHIER**

**Certification Officer**



2025-05-27

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Certificate issued by:

**Laboratoire Central des Industries Electriques (LCIE)**  
**33 Avenue du General Leclerc**  
**FR-92260 Fontenay-aux-Roses**  
**France**





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Manufacturer: **Bürkert Werke GmbH & Co KG**  
Christian Bürkert-Straße 13-17  
74653 Ingelfingen  
**Germany**

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

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 Reports:

[FR/LCIE/ExTR21.0004/00](#)

[FR/LCIE/ExTR22.0059/00](#)

Quality Assessment Report:

[FR/FIDI/QAR25.0003/00](#)

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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The device is used to measure the flow of liquids.  
It consists of a pipe in which a fluid circulates, an enclosure and a display.

(Refer to attachment for more details).

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

- The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1 standard.
- Transient protection shall be provided that is set at a level not exceeding 140% of the peak rated voltage value at the supply terminals to the equipment.
- All entries in the enclosure shall be equipped with cable glands, connectors or blanking elements certified with a protection mode and an IP compatible for the intended use.
- Any parallel threaded entry with less than five full threads engaged shall be used with an additional seal or gasket.
- Potential electrostatic charging hazard. Clean only with a wet cloth (see instructions).



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Update of Quality Assessment Report (LCIE File #26315033).

**Annex:**

[Annex to Certificate IECEx LCIE 21.0002X issue 2.pdf](#)

## FULL EQUIPMENT DESCRIPTION

The device is used to measure the flow of liquids.

It consists of a pipe in which a fluid circulates, an enclosure and a display.

The flowmeter type 8098 series is a product of the FLOWave range. It uses the SAW (Surface Acoustic Waves) technology and is at first designed for the use in applications requiring that all hygienic conditions are fulfilled. The main use focus is on hygienic applications and for the measurement or monitoring of water similar liquids.

As an example low conductivity or nonconductive water is a very preferred area of usage as FLOWave flow measurement is independent from conductivity.

No parts in the measurement tube.

The housing enclosure is equipped with an already certified Ex component, see table below:

Component	Manufacturer	Type	Certificate	Ex marking	Operating temperature	Applied standards
Protective Vent type Gore® PolyVent	W. L. Gore & Associates GmbH	PMF200400	IECEX IBE 17.0013U Date of Issue: 2020-11-16	Ex eb IIC Gb Ex tb IIIC Db	- 40°C up to +125°C	IEC 60079-0, Ed.7.0 IEC 60079-7, Ed.5.1 IEC 60079-31, Ed.2.0

## MARKING

**bürkert**

Address: ...

Year of construction: ...

Serial N°: ...

Type: 8098\*\*\*\*\*

Ex ec IIC T4 Gc

Ex tc IIIC T110°C Dc or T130°C Dc

IECEX LCIE 21.0002X

-10°C ≤ T<sub>amb</sub> ≤ +40°C according to the process fluid temperature and the operation time.

Fluid temperature: -20°C ... +130°C (See table below)

Ratings: 35V DC, 5W.

### WARNINGS –

DO NOT CONNECT OR DISCONNECT WHEN ENERGIZED

DO NOT OPEN WHEN ENERGIZED

POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTION (only in dust atmosphere)

	Process fluid temperature (°C)	Ambient temperature (°C)	Temperature class No product orientation restriction	
			Gas	Dust
Continuous operation allowed	-20	40	T4	T110°C
	-10	40		
	0	40		
	10	40		
	20	40		
	30	40		
	40	40		
	50	40		
	60	40		
	70	40		
	80	40		
Operation allowed for maximum 1 hour	90	38	T4	T130°C
	100	36		
	110	34		
	120	32		
	130	30		

## RANGE DETAILS

(1) TYPE	(2) DN	(10) DG	(12) TTYP	(13) ELEA	(14) ELEW	(15) ERM1	(16) ERM2	(17) ERM3	(18) ERM4	(24) IO	(31) IEC
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		Product range		
		Description	Allowed value	Signification
(1) TYPE	Product type		8098	FLOWave flowmeter
(2) DN	Orifice size		8.0 10.0 15.0 20.0 25.0 40.0 50.0 65.0 80.0 100.0 3/8"-1/2"-3/4"-1"-1 1/2"-2"-2 1/2"-3"-4"	Measurement pipe diameter
(10) DG	Display size		0 1	0: no display 1: 2.4" display
(12) TTYP	Transmitter type		02	SE98
(13) ELEA	Electrical connection		RB	2 cable glands, 1xM12
(14) ELEW	Electrical connection material		2	Stainless steel
(15) ERM1	Extension module 1		0	Not applied for an Ex using
(16) ERM2	Extension module 2		0	Not applied for an Ex using
(17) ERM3	Extension module 3		0	Not applied for an Ex using
(18) ERM4	Extension module 4		0	Not applied for an Ex using
(24) IO	Input / Outputs		S	1 AO + 1 DO + 1 AO/DO
(31) IEC	IECEX approval		0001	IECEX 3GD

## RATINGS

U: 35 V DC, P: 5 W, with electronic charge 700 mA

## ROUTINE TESTS

None.

APPARATUS OVERVIEW: example

