



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

Certificate No.: IECEx CSA 09.0002

Issue No: 4

Certificate history:

Status: **Current**

Issue No. 4 (2017-03-12)

Issue No. 3 (2016-09-29)

Date of Issue: **2017-03-12**

Page 1 of 5

Issue No. 2 (2015-02-03)

Issue No. 1 (2011-02-11)

Issue No. 0 (2009-04-01)

Applicant: **Kurz Instruments Inc.**
2411 Garden Rd.
Monterey, CA 93940 USA
United States of America

Equipment: **MFT B-Series Mass Flow Transmitters**

Optional accessory:

Type of Protection: **Ex d**

Marking:

Ex d IIB+H2 Gb IP66

24Vdc, 1 A

* Transmitter Enclosure:

* Ta= -40 to 65 °C Tcode= T4

* Sensing Element:

* Ta= -40 to 45 °C T4; OR Ta= -40 to 110 °C T3

85-264 VAC, 24W, 50/60 Hz, 1 Phase

* Transmitter Enclosure:

* Ta= -40 to 50 °C T4; OR Ta= -40 to 65 °C Tcode= T150 °C

* Sensing Element:

* Ta= -40 to 45 °C T4; OR Ta= -40 to 110 °C T3

*Approved for issue on behalf of the IECEx
Certification Body:*

Dorin Stochitoiu

Position:

Technical Advisor

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

Certificate issued by:



IECEX Certificate of Conformity

Certificate No: IECEX CSA 09.0002

Issue No: 4

Date of Issue: 2017-03-12

Page 2 of 5

CSA Group
178 Rexdale Boulevard
Toronto, Ontario M9W 1R3
Canada





IECEX Certificate of Conformity

Certificate No: IECEX CSA 09.0002

Issue No: 4

Date of Issue: 2017-03-12

Page 3 of 5

Manufacturer: **Kurz Instruments Inc.**
2411 Garden Rd.
Monterey, CA 93940 USA
United States of America

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 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:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:6

*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:

[CA/CSA/ExTR09.0003/00](#)
[CA/CSA/ExTR09.0003/03](#)

[CA/CSA/ExTR09.0003/01](#)
[CA/CSA/ExTR09.0003/04](#)

[CA/CSA/ExTR09.0003/02](#)

Quality Assessment Report:

[US/FMG/QAR09.0003/03](#)



IECEX Certificate of Conformity

Certificate No: IECEx CSA 09.0002

Issue No: 4

Date of Issue: 2017-03-12

Page 4 of 5

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

B-Series Mass Flow Transmitters (MFTs) are meters that consist of Transmitter Enclosure and probe. The probe consists of a Sensor Element with a Probe Support hardware providing mechanical support between the Transmitter Enclosure and the Sensor element. The Transmitter Enclosure is approved with different versions of the main Sensor Control (SC) PCBs in addition to other optional PCBs mounted inside.

Model Codes are 454FTB-a, 454FTB-WGF-a, 454PFTB-16, 454WGF-a, 504FTB, 524FTB-b, 534FTB-c, 544FTB-d where suffixes a, b, c and d denote flowbody size, SC board and Sensor options. Refer to manufacturer drawing 280144 for specific model information.

The Transmitter Enclosure is an explosion proof metal enclosure (120 mm approx. diameter with 3 conduit entries) for use in Zone 1 areas. For Transmitter Attached (TA) applications, the transmitter enclosure is mounted directly to the probe. In Transmitter Separate (TS) applications a junction box Enclosure is directly mounted to the probe. The junction box Enclosure is then connected to the remote Transmitter Enclosure.

The Probe support unit is up to 1524mm long and can be an stainless steel in-line flow type or an insertion flow type which is directly mounted either to a transmitter enclosure or to a junction box enclosure.

SPECIFIC CONDITIONS OF USE: NO



IECEX Certificate of Conformity

Certificate No: IECEx CSA 09.0002

Issue No: 4

Date of Issue: 2017-03-12

Page 5 of 5

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

Issue 1 - this Issue introduced the following changes:

-The addition of new sensor control board 420380 was endorsed.

-A new model, 454WGF, was introduced.

- Following appropriate re-assessment to demonstrate compliance with the requirements of the IEC 60079 series of standards, the documents previously listed IEC 60079-0:2004 Ed 4 and, IEC 60079-1:2001 Ed 4 were replaced by those currently listed, the markings were updated accordingly.

- Documentation changes relating to the new sensor board and new model were recognised.

Issue 2 - This issue introduced the following changes:

- Add new model 454FTB-WGF-a that used identical electrical, Ex d enclosure and isolation seal constructions as the approved model 454FTB-a, except this design has a different sensor than previously tested. It only differs in the spacing of its two RTD elements which has no impact to the existing certification.

- Update the documentation list to include the new model 454FTB-WGF-a and the associated drawings. Revised the equipment labels per the IECEx marking requirements. Added new drawings to provide better description of the equipment configurations and the routine pressure test procedure.

- Change the Electronics Housing DC version temperature rating to single range, -40 to 65 °C, and the T-code from T110 °C to T4.

Issue 3 - This issue introduced the following changes

- For all B series models, the addition of a new optional Profibus PCB or HART AO2 PCB attached to the main Sensor Control PCB inside the Transmitter Enclosure.

Issue 4:

- A Foundation Field Bus Option is added to the B Series Mass Flow Transmitter (MFT) product line for Transmitter Separate configurations, utilizing Stainless Steel Transmitter Enclosures. New optional FF PCBs are introduced in the Transmitter Enclosures.

- Stainless Steel (SS) Transmitter Enclosures are added. They are approved for use in all Transmitter Separate Applications, including the Foundation Field Bus MFTs.

- A new FF Transmitter enclosure, consisting of two SS enclosures connected by an explosion proof seal is added.