EU DECLARATION OF CONFORMITY

Kurz Instruments B-Series Mass Flow Transmitters

is in conformity with the provisions of the following European Economic Area Directives:
ATEX EMC LVD PED RoHS WEEE
This product was first put on the market in January 2007.

ATEX Ex e (2014/34/EU) Explosive Atmospheres

The following Kurz Instruments Mass Flow Transmitters are in compliance with the ATEX requirements for Group II, Category 3 Explosive Gas Atmospheres.

II 3 G:

Series 454FTB-a	a = Probe support diameters 08-12-16, 16th of an inch.
Series 454PFTB-16	
Series 454FTB-WGF-a	a = Probe support diameter -12-16, 16th of an inch.
Series 504FTB-b	
Series 524FTB-b	b = Flow Body diameters 6A though 96, 16th of an inch.
Series 534FTB-c	c = Flow Body throat diameter 6A/B/C through 64A/B/C, 16th of an inch
Series 544FTB-d	d = Flow Body throat diameter, 06 to 36 of an inches.

All the above models have been designed and manufactured to the EN IEC 60079-0 (2018) and EN IEC 60079-7 (2015) standards for increased safety.
They are marked: II 3 G and Ex ec IIC T5...T3 Gc.

Type 4 / IP66 Enclosure, Aluminum

DC powered units:	24 VDC, 1 A
Electronics housing:	-40°C to 65°C: T4
Sensing element:	-40°C to 55°C: T5 or to 130°C: T3
AC powered units:	85 to 264 VAC, 24 W, 50/60 Hz ph1
Electronics housing:	-40°C to 50°C: T4, or to 65°C: 150°C (T3)
Sensing element:	-40°C to 55°C: T5 or to 130°C: T3

Type 4 / IP54 Enclosure, Polycarbonate

DC powered units:	24 VDC, 1 A
Electronic Housing:	-25°C to 50°C: T4
AC powered units:	85 to 264 VAC, 24 W, 50/60 Hz ph1
Electronic housing:	-25°C to 50°C: T4

The equivalent sensor temperature rise is 70°C. The lower survival temperature limit is -25°C for the Display version and -40°C for the blind or non-Display version.

In accordance with EC NOTICE TO STAKEHOLDERS WITHDRAWAL OF THE UNITED KINGDOM AND EU RULES IN THE FIELD OF INDUSTRIAL PRODUCTS dated 13 March 2020.

This issued certificate - Certificate No: **ITS19ATEX105293X**

and supporting Technical Construction File underwent a legal transfer of new ownership by signed agreement between the named applicant on this certificate and the 3rd party bodies involved in the transfer from NB0359 to NB2575 on 26 November 2020

Name: Fabrizio Massei

Position: ATEX Certification Officer

Signature:

Date: 26 November 2020

PED 2014/68/EU Pressure Equipment Directive

[illegible] Kurz B-Series flow meters are rated for Category 1 applications. All versions of the 454FTB are so small that the PED does not apply; there are no PED limitations on its use. This is also true of the 454PFTB. The inline products: 504FTB, 524FTB, 534FTB up to 4" (DN100) nominal size are rated up to 1.0 MPa or 150 PSI. The 2" (50 mm) and smaller can be used up to 2.0 MPa (300 PSI) or less, depending on the use of flanges, etc. Inline models above the 4" (DN100) nominal size may only be used below 50 kPa where the PED does not apply. The 534FTB-32C has a 2" (DN50) test section, but the 4" (DN100) inlets and outlets are the limit for a Category I PED device. Due to these changing pipe sizes in the 534FTB, any model using a pipe section larger than 4" is only PED rated for 50 kPa maximum pressure.

Model	Size	Rating
454FTB, 454FTB-WGF and 454PFTB	Up to 1" (DN 25)	Not Applicable.
504FTB, 524FTB, 534FTB	Up to 2" (DN 50)	Up to 2.0 MPa (300 PSI)
504FTB, 524FTB	Up to 4" (DN 100)	Up to 1.0 MPa(150 PSI)
504FTB, 524FTB, 534FTB	Over 4" (DN 100)	Up to 50 kPa BAR (7.5 PSI)
534FTB	-32C (2" throat, 4" inlet/outlet)	Up to 1.0 MPa (150 PSI)

ATEX Ex d (2014/34/EU) Explosive Atmospheres

The following Kurz Instruments Mass Flow Transmitters are in compliance with the ATEX requirements for Group II, Category 2 Explosive Gas Atmospheres.

II 2 G:

Series 454FTB-a	a = Probe support diameters 08-12-16, 16th of an inch.
Series 454PFTB-16	
Series 454FTB-WGF-a	a = Probe support diameter -12-16, 16th of an inch.
Series 504FTB-b	
Series 524FTB-b	b = Flow Body diameters 6A though 96, 16th of an inch.
Series 534FTB-c	c = Flow Body throat diameter 6A/B/C through 64A/B/C, 16th of an inch
Series 544FTB-d	d = Flow Body throat diameter, 06 to 36 of an inches.

All the above models have been designed and manufactured to the EN IEC 60079-0 (2018) and EN IEC 60079-1 (2014) standards for flame-proof.
They are marked: II 2 G and Ex db IIB + H2 T5...T3 Gb.

Type 4 / IP66 Enclosure, Aluminum; Type 4x/ IP66 Enclosure, Steel

DC powered units:	24 VDC, 1 A
Electronics housing:	-40°C to 65°C: T4
Sensing element:	-40°C to 45°C: T4 or to 110°C: T3
AC powered units:	85 to 264 VAC, 24 W 50/60 Hz ph1
Electronics housing:	-40°C to 50°C: T4 or to 65°C: 150°C (T3)
Sensing element:	-40°C to 45°C: T4 or to 110°C: T3

The equivalent sensor temperature rise is 90°C above process gas temperature. While not a safety hazard, the lower survival temperature limit is -25°C for the Display version and -40°C for the blind or non-Display version. Potted conduit seals or cable glands must be directly attached to the enclosure.

The 454PFTB purge cleaning gas must be inert for flammable gas applications.

The notified bodies for this product and production approval are:

Quality Assurance Notification (QAN)	EU-Type Examination Certificate
Cert #FM19ATEXQ0092	Cert #ITS19ATEX105293X
FM Approvals Europe Ltd EU NB #2809	Intertek Italia SPA
One Georges Quary Plaza	Via Guido Miglioli, 2/A
Dublin, Ireland, D02 E440	20063 Cernusco sul Naviglio (MI) Italy
Formerly under	Formerly under
FM Approval Ltd NB #1725	Intertek Testing & Certification Ltd NB #0359
Windsor Dials, Windsor, Bershire, UK. SL4 1RS	Academy Place, 1-9 Brook Street
	Brentwood, Essex, CM145NQ, United Kingdom

EMC (2014/30/EU) Electromagnetic Compatibility Directive

The electromagnetic compliance of the B-Series is in accordance with EN 61326-1 (2013) Class B light Industrial emission standard. Heavy Industrial immunity standard. EN61000-4-5 and EN61326-1 surge requirements, 2 kV on AC line, 1 kV on DC line, 0.5 kV on all I/O lines.

All units must be installed per the field-wiring diagram 342038, 342039, 342058, and installation instructions in the Kurz B-Series Hardware Reference Guide (see Support on the Kurz website). A 12.7 mm aperture, clip-on ferrite is required for all I/O wiring inside the enclosure, except the AC power, unless a shielded cable or shielded conduit is used for the I/O wiring connections.

LVD (2014/35/EU) Low Voltage Directive

This declaration is made on the basis that the above equipment has been designed and manufactured according to the essential health and safety requirements of the Low Voltage Directive and uses good engineering practice where other aspects of safety are concerned.
IEC 61010-1:2010 Intertek Testing Services N.A., Inc. Report 103942484DAL-003

RoHS (2011/65/EU) RoHS3 (2015/863) Reduction of Hazardous Substances

All electronics, enclosure parts, paints, etc. used in this design comply with the requirements of the RoHS2 and RoHS3 Directives.

WEEE (2012/19/EU) Waste of Electrical and Electronic Equipment

The B-Series products are purposely designed to be used in large-scale fixed installations (LSFI) and are out of scope of the WEEE Directive. The WEEE Directive does not apply.

The top-level technical report in support of this CE declaration is Kurz Document 430067. Kurz Instruments, Inc. is ISO 9001 certified to ensure that the products are always made in conformance of the EU-Type approved designs.

Sign Name		**Title**	SALES MANAGER
Print Name	M. VANDERMOLEN	**Date**	11/20/20

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