



EU DECLARATION OF CONFORMITY



Kurz Instruments K-BAR 2000B, K-BAR 2000B-WGF

The Kurz Instruments, Inc., Multipoint Thermal Mass Flow Transmitters, K-BAR-2000B and 2000B-WGF

conforms with the following European Union Directives:
ATEX PED LVD EMC RoHS WEEE

This product was first put on the market, January 2007.

ATEX (2014/34/EU) Equipment used in potentially explosive atmospheres
The Kurz Instruments Multipoint Mass Flow Transmitters K-BAR 2000B and K-BAR 2000-WGF are in compliance with the ATEX requirements for Group II, Category 3 explosive Gas atmospheres and have been self-declared.

⊕ II 3 G:

The above models have been designed and manufactured to the EN60079-0:2018 and EN60079-7:2015/A1:2018 standards for increased safety. They are marked:

Ex ec IIC T5...T3 Gc
Type 4X/7 IP66 enclosure
Input Power: 24 VDC, 3.5 A
Electronics housing:
-40 °C to 50 °C: T6 or to 65 °C: T5
Sensing element
-40 °C to 55 °C: T5 or to 130 °C: T3

The equivalent sensor temperature rise is 90 °C above process gas temperature.

LVD (2014/35/EU) Low voltage directive for all electrical equipment
This declaration is made on the basis that the above equipment has been designed and manufactured according to the essential health and safety requirements and the Low Voltage Directive and uses good engineering practice where other aspects of safety are concerned.

RoHS (2015/864/EU) Reduction of Hazardous Substances in Electrical and Electronic Equipment
All the electronics, enclosure parts, paints etc. used in this design comply with all the requirements of the RoHS Directive

PED (2014/68/EU) Pressure equipment
The K-BAR 2000B is rated for Category I applications. The flange size used to mount the K-BAR limits the maximum operation pressure.

Summary of PED ratings

Model	Size	Rating
K-BAR 2000B, K-BAR 2000B-WGF	Up to 2" (DN 50) flange	Up to 20 BAR (300 PSI)
K-BAR 2000B, K-BAR 2000B-WGF	Up to 4" (DN 100) flange	Up to 10 BAR (150 PSI)
K-BAR 2000B, K-BAR 2000B-WGF	Over 4" (DN 100)	Up to 0.5 BAR (7.5 PSI)

EMC (2014/30/EU) Electromagnetic compatibility: emissions and susceptibility
The electromagnetic compliance of the K-BAR-2000B is in accordance with
EN 61326-1 (2013) Class B light industrial emissions standard and heavy industrial immunity standard.
EN 61000-4-5 and EN 61326-1 surge requirements, 2 kV on AC line, 1 kV on DC power line and 0.5 kV on all I/O lines.

All units must be installed per the field-wiring diagrams 342040 and 342041. Note a 12.7 mm aperture, clip-on Ferrite is required for all I/O wiring inside the enclosure, unless a shielded cable or shielded conduit is used for the I/O wiring connections.

WEEE (2012/19/EU) Waste of Electrical and Electronic Equipment
The K-BAR-2000B 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.

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Date July 31, 2020

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