



# 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.:	<b>IECEx KIWA 19.0016X</b>	Page 1 of 4	<u>Certificate history:</u> <a href="#">Issue 0 (2019-11-07)</a>
Status:	<b>Current</b>	Issue No: 1	
Date of Issue:	2020-04-15		
Applicant:	<b>KROHNE Messtechnik GmbH</b> Ludwig-Krohne-Straße 5 47058 Duisburg Germany		
Equipment:	<b>Variable Area Flowmeters, types DK32, DK34, DK37/M8M, DK37/M8M/R, H250/M8MG, H250/M8MG/R, H250/M40 and H250/M40R</b>		
Optional accessory:			
Type of Protection:	<b>h (constructional safety "c")</b>		
Marking:	Ex h IIC T6...T3 Gb or T6...T2 Gb Ex h IIIC T85 °C or T100 °C or T135 °C or T150 °C or T200 °C or T300 °C Db		

Approved for issue on behalf of the IECEx  
Certification Body:

**Paul van Nijen**

Position:

**Certification officer**

Signature:  
(for printed version)

Date:

*15 April 2020*

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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Kiwa Nederland B.V. (Unit Kiwa ExVision)**  
Wilmersdorf 50  
7327 AC Apeldoorn  
P.O. Box 137  
Netherlands





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Manufacturer: **KROHNE Messtechnik GmbH**  
Ludwig-Krohne-Straße 5  
47058 Duisburg  
Germany

Additional  
manufacturing  
locations:

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

**ISO 80079-36:2016** Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic methods and requirements  
Edition:1.0

**ISO 80079-37:2016** Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres - Non electrical type of protection constructional safety "c", control of ignition source "b", liquid immersion "k"  
Edition:1.0

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:

[NL/KIWA/ExTR19.0018/00](#)

[NL/KIWA/ExTR19.0018/01](#)

Quality Assessment Report:

[DE/PTB/QAR06.0002/05](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The Variable Area Flowmeters types DK32, DK34, DK37/M8M, DK37/M8M/R, H250/M8MG, H250/M8MG/R, H250/M40 and H250/M40R are devices that are intended to measure the volume flow of flammable and non-flammable gasses and liquids by means of a float in a metal tube.

For thermal data see Annex.

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

- The Variable Area Flowmeters shall be installed and maintained such that the risk of electrostatic discharge is minimized.
- Pressure surges in the process line shall be avoided.



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

- Correction of the temperature table.
- Increase of the process temperature of model H250 / M40 to max. +300 °C

## Annex:

[Annex to Certificate of Conformity.pdf](#)

**Thermal data:**

Equipment model	Temperature class	Max. surface temperature	Ambient temperature range	Medium temperature
DK32 / DK34	T6	T85 °C	-40 °C to +70 °C	-40 °C to +85 °C
	T5	T100 °C		-40 °C to +100 °C
	T4	T135 °C		-40 °C to +135 °C
	T3	T150 °C		-40 °C to +150 °C
DK32 HT / DK34 HT	T6	T85 °C	-25 °C to +85 °C	-25 °C to +85 °C
	T5	T100 °C	-25 °C to +100 °C	-25 °C to +100 °C
	T4	T135 °C	-25 °C to +135 °C	-25 °C to +135 °C
	T3	T200 °C	-25 °C to +200 °C	-25 °C to +200 °C
DK37 / M8M	T6	T85 °C	-40 °C to +70 °C	-40 °C to +85 °C
	T5	T100 °C		-40 °C to +100 °C
	T4	T135 °C		-40 °C to +135 °C
	T3	T150 °C		-40 °C to +150 °C
H250 / M8MG	T6	T85 °C	-40 °C to +70 °C	-40 °C to +85 °C
	T5	T100 °C		-40 °C to +100 °C
	T4	T135 °C		-40 °C to +135 °C
	T3	T200 °C		-40 °C to +200 °C
H250 / M40 H250 / M40 HT	T6	T85 °C	-40 °C to +85 °C	-40 °C to +85 °C
	T5	T100 °C	-40 °C to +100 °C	-40 °C to +100 °C
	T4	T135 °C	-40 °C to +120 °C	-40 °C to +135 °C
	T3	T200 °C	-40 °C to +120 °C	-40 °C to +200 °C
	T2	T300 °C	-40 °C to +120 °C	-40 °C to +300 °C