

### **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 BVS 16.0072	issue No.:0	Certificate history:				
Status:	Current						
Date of Issue:	2016-11-04	Page 1 of 3					
Applicant:	Heinrichs Messtech Robert-Perthel-Straße 50739 Köln Germany						
Equipment: Optional accessory:	Electronic transmitte	r type ES, ES-PPA or ES-FF					
Type of Protection:	Equipment protection	n by intrinsic safety "i"					
Marking:	Ex ia IIC T6 Gb						
Approved for issue on be Certification Body:	half of the IECEx	J. Koch					
Position:		Head of Certification Body					
Signature: (for printed version) Date:		- Man ne					
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.							

Certificate issued by:

**DEKRA EXAM GmbH** Dinnendahlstrasse 9 44809 Bochum Germany





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Page 2 of 3

Manufacturer: Heinrichs Messtechnik GmbH

Robert-Perthel-Straße 9

50739 Köln Germany

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 electrical 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 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition: 6.0

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: DE/BVS/ExTR16.0074/00

Quality Assessment Report:

DE/BVS/QAR11.0001/03



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Page 3 of 3					
Schedule					
EQUIPMENT: Equipment and systems covered by this certificate are as follows:					
Description					
The electronic transmitter serves for the recording of the position or angular position of a magnet at variable area					
flowmeters. The completely encapsulated electronic device of the transmitter is mounted in a light alloy housing together with corresponding terminals for the connection of the intrinsically safe circuits. The transmitter is provided to be installed in a housing with a min. degree of protection IP 20.					
Parameters					
See Annex					
CONDITIONS OF CERTIFICATION: NO					

Annex: BVS\_16\_0072\_Heinrichs\_Annex.pdf



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**IECEx BVS 16.0072** 

Annex Page 1 of 1

#### **Parameters**

1 1.1	Type ES Input circuit (terminals 1 and 2) Voltage Current Power Effective internal inductance Effective internal capacitance	Ui Ii Pi Li Ci	DC	30 150 1 0.24 16	V mA W mH nF
1.2	Binary outputs 1 and 2: potentially free optocoupler circul Voltage Current Power Effective internal inductance Effective internal capacitance	its (terminals U <sub>i</sub> I <sub>i</sub> P <sub>i</sub> L <sub>i</sub> C <sub>i</sub>	3 - 4 DC	and 5 - 6 30 20 100 4 16	), each V mA mW μH nF
2	Type ES-PPA Input circuit (terminals 7 and 8)				
2.1	For use as field device in a fieldbus system in accordance voltage	e with FISCO U <sub>i</sub>	with DC	17.5	V
2.2	Or for connection to a circuit with the following max. value Voltage Current Power	es U <sub>i</sub> I <sub>i</sub> P <sub>i</sub>	DC	32 280 2	V mA W
	The effective internal values are: Effective internal inductance Effective internal capacitance	L <sub>i</sub> C <sub>i</sub>		< 10 < 5	μH nF
3	Type ES-FF Fieldbus circuit (terminals 9 and 10)				
3.1	For use as field device in a fieldbus system in accordance voltage	e with FISCO U <sub>i</sub>	DC	17.5	V
3.2	Or for connection to a circuit with the following max. value Voltage Current Power	es U <sub>i</sub> I <sub>i</sub> P <sub>i</sub>	DC	32 280 2	V mA W
	The effective internal values are: Effective internal inductance Effective internal capacitance	L <sub>i</sub> · C <sub>i</sub>		< 10 < 5	μH nF
4	Ambient temperature range	Ta	-40 °	°C up to	+70 °C