



# 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](http://www.iecex.com)

Certificate No.: **IECEX KEM 07.0055X** issue No.:1

Status: **Current**

Certificate history:  
Issue No. 1 (2009-3-4)  
Issue No. 0 (2008-4-3)

Date of Issue: **2009-03-04** Page 1 of 4

Applicant: **Fisher Controls International, LLC**  
1612 South 17th Avenue  
Marshalltown, Iowa 50158  
**United States of America**

Electrical Apparatus: **Multi-Variable Sensor, MVS205R**  
*Optional accessory:*

Type of Protection: **Flameproof enclosures**

Marking: **Ex d IIB T5**  
**Ex tD A21 IP66 T85 °C**

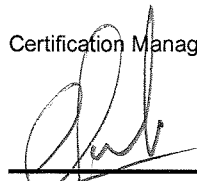
*Approved for issue on behalf of the IECEX  
Certification Body:*

C.G. van Es

*Position:*

Certification Manager

*Signature:  
(for printed version)*

  
\_\_\_\_\_

*Date:*

2009-03-04

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:

KEMA Quality B.V.  
Utrechtseweg 310  
6812 AR Arnhem  
The Netherlands





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Manufacturer: **Fisher Controls International, LLC**  
1612 South 17th Avenue  
Marshalltown, Iowa 50158  
**United States of America**

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:

<b>IEC 60079-0 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2007-04</b> Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 61241-0 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
<b>IEC 61241-1 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*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:

NL/KEM/ExTR07.0060/00  
NL/KEM/ExTR07.0060/01

Quality Assessment Report:

FR/LCI/QAR07.0011/00



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

#### Description

The Multi-Variable Sensor, Model MVS205R consists of a transducer, electronics and terminal compartment. The Multi-Variable Sensor simultaneously measures static pressure, differential pressure and process temperature. All signals are converted to a digital signal and made available for further communication.

Ambient temperature range -40 ... +75 °C.

#### Electrical Data

Rated voltage ..... 8 to 30 Vdc  
Rated current ..... max. 30 mA dc

### CONDITIONS OF CERTIFICATION: YES as shown below:

#### Installation instructions

##### Cable connection

The cable entry device shall be certified in type of protection flameproof enclosures "d", suitable for the conditions of use and correctly installed.

For ambient temperatures over 70 °C, cables and cable glands suitable for at least 90 °C shall be used.

##### Conduit connection

An Ex d certified sealing device such as a conduit seal with setting compound shall be provided immediately to the entrance of the valve housing.

For ambient temperatures over 70 °C, the wiring and setting compound in the conduit seal shall be suitable for at least 90 °C.

The blanking elements of unused apertures shall be of a certified flameproof type, suitable for the conditions of use and correctly installed.

#### Special conditions for safe use

The device contains a thin wall diaphragm. Installation, maintenance and use shall take into account the environmental conditions to which the diaphragm will be subjected. The manufacturer's instructions for installation and maintenance shall be followed in detail to assure safety during its expected lifetime.

Threaded covers shall have at least 8 full threads engaged.



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

An alternative type of termination board has been introduced.