



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 11.0054X issue No.:1

Certificate history:

Issue No. 1 (2015-3-10)
Issue No. 0 (2011-8-25)

Status: **Current**

Date of Issue: **2015-03-10** Page 1 of 5

Applicant: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg
Germany

Electrical Apparatus: **Diagnosis Communication Module type 9415/00-310-4***
Optional accessory:

Type of Protection: **Equipment protection by intrinsic safety "i", Equipment protection by type of protection "n"**

Marking: Ex nA [ic] IIC T4 Gc

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

H.-Ch. Simanski

Position:

Head of Certification Body

*Signature:
(for printed version)*

Date:

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

Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
DEKRA EXAM GmbH



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Manufacturer: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg
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 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-15 : 2010 Edition: 4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"

*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/ExTR11.0089/01](#)

Quality Assessment Report:
[DE/BVS/QAR10.0002/05](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

General product information:

The Diagnosis Communication Module (DCM) serves for collection and transmission of the diagnosis information of up to 8 fieldbus segments to the process control system. The Diagnosis Communication Module is to be used in conjunction with the bus-Carrier type 9419 and the Fieldbus Power Supply modules type 9412 plugged onto it.

The Diagnosis Communication Module is designed according to type of protection Ex nA.. For data communication it is provided with a galvanically separated interface (FF-H1) for connection of a circuit with voltage limitation per type of protection Ex ic or an intrinsically safe circuit.

This interface is supplied from the fieldbus connected to it and performs as a FISCO Field Device with type of protection Ex ic.

The Diagnosis Communication Module has to be mounted inside an enclosure type of protection Ex nA which is in acc. with IEC 60079-15.

Type designation:

Diagnosis Communication Module type 9415/00-310-4* Instead of the asterisk in the complete denomination the letter 0 (without service port) or 2 (RS232 port) will be inserted.

CONDITIONS OF CERTIFICATION: YES as shown below:

The Diagnosis Communication Module has to be mounted inside an enclosure type of protection Ex nA which is in acc. with IEC 60079-15.



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EQUIPMENT(continued):

Electrical data

1 Connector X1 to the bus carrier

Power supply

Rated voltage

Voltage range

Max. voltage

	DC	24	V
	DC	18...32	V
Um	DC	32	V

Diagnosis signals

Rated voltage

Max. voltage

	DC	5	V
Um	DC	32	V

2 Connector X2 (pins 2, 3, 5) firmware download

Rated voltage

Max. voltage

	DC	± 15	V
Um	DC	32	V

3 Interface FF-H1: terminals 4 (TRUNK+), 5 (TRUNK-), 6 (Shield)

The FF-H1-Feldbus connection is realized as a galvanically separated passive circuit for the connection of intrinsically safe or intrinsically safe voltage limited circuits level of protection Ex ic.

Voltage

Internal inductance

Internal capacitance

Ui	DC	32	V
Li		10	µH
Ci		negligible	

The FF-H1 connection is in acc. with the requirements for a FISCO Field device level of protection Ex ic group IIC.

4 Ambient temperature range

Ta -20 °C up to +70 °C



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

The Diagnosis Communication Module has been assessed in acc. with the current standard versions IEC 60079-0:2011, IEC 60079-11:2011 and IEC 60079-15:2010.