



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 PTB 08.0007 issue No.:1

Status: **Current**

Certificate history:
Issue No. 1 (2011-4-18)
Issue No. 0 (2008-2-21)

Date of Issue: **2011-04-18** Page 1 of 4

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

Electrical Apparatus: **Fieldbus Terminator, Type 9418/..-...-..**
Optional accessory:

Type of Protection: **Intrinsic Safety (Gas + Dust), Encapsulation (Gas), FISCO/FNICO (Gas), Protection by Enclosures (Dust)**

Marking: **Ex mb II T6/T5**
Ex tD A21 IP66 T65C / T100C
or
Ex ib IIB/IIC T6/T5
Ex ibD 21 T65C / T100C

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

Dr. Ing. Ulrich Johannsmeyer

Position:

Department Head "Intrinsic Safety and Safety of Systems"

*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:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany





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

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 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-11 : 2006 Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-18 : 2004 Edition: 2.0	Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation 'm' electrical apparatus
IEC 60079-27 : 2005-04 Edition: 1.0	Electrical apparatus for explosive atmospheres- Part 27: Fieldbus intrinsically safe concept (FISCO) and Fieldbus non-incendive concept (FINCO)
IEC 61241-0 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-1 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"
IEC 61241-11 : 2005 Edition: 1	Electrical apparatus for use in the presence of combustible dusts - Part 11: Protection by intrinsic safety 'iD'

*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/PTB/ExTR08.0005/00](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

see attachment below

CONDITIONS OF CERTIFICATION: NO



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

new QAR issued only



Description of equipment

The fieldbus terminator, type 9418/..-...-.. serves as a low-reflectance a.c.-matching element of a 2-wire fieldbus line.

Two variants are available, each intended for connection to a non-intrinsically safe circuit or to an intrinsically safe circuit respectively.

The maximum permissible ambient temperature range is $-40\text{ °C} \leq T_a \leq +75\text{ °C}$ for temperature class T5 and $-40\text{ °C} \leq T_a \leq +40\text{ °C}$ for T6

Electrical data

Typ 9418/01-201-10

Field bus terminal
(both strands)

maximum peak value of the voltage $U_p = 50\text{ V}$
bus-a.c.-power, maximum 320 mW

Typ 9418/02-201-10

Field bus terminal
(both strands)

type of protection Intrinsic Safety Ex ib IIC or Ex ibD
only for connection as terminator element to a circuit
according to the FISCO/FNICO-model

Special conditions for safe use

For special conditions reference is made to the operating instructions