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 17.0081X

Issue No: 0

Certificate history:
Issue No. 0 (2017-10-09)

Status: **Current**

Date of Issue: **2017-10-09**

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

Equipment: **Transmitter Supply Unit type 9260/19-11-10**
Optional accessory:

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

Marking:
Ex nA [ia Ga] IIC T4 Gc
[Ex ia Da] IIIC

Approved for issue on behalf of the IECEx Certification Body: Jörg Koch

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.

Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

DEKRA
On the safe side.

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Certificate No:	IECEx BVS 17.0081X	Issue No: 0
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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/ExTR17.0074/00

Quality Assessment Report:

DE/BVS/QAR10.0002/12

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Subject and Type

Transmitter Supply Unit type 9260/19-11-10

Description

The Transmitter Supply Unit, which has to be installed outside the hazardous area or in an enclosure which is in accordance with IEC 60079-15, is used for transmission of 0(4) … 20 mA signals between intrinsically safe and non-intrinsically safe signal circuits. Additionally, digital communication signals (HART) can be modulated and bi-directional transmitted.
The intrinsically safe circuits type of protection Ex ia can be led into areas which require EPL Ga or EPL Da equipment.

Ratings:

See Annex

SPECIFIC CONDITIONS OF USE: YES as shown below:

For the installation of the Transmitter Supply Unit in areas, where EPL Gc (Zone 2) equipment is required, they have to be mounted in enclosures which are in accordance with IEC 60079-15.

Annex:

BVS_17_0081X_RStahl_Annex.pdf

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Certificate No.: **IECEx BVS 17.0081X**
Annex

Ratings:

1 Non-intrinsically safe power supply circuit (terminals 5 – 6 or pac-Bus)

Nominal voltage	U_n	DC	19.2 … 30	V
Maximum voltage	U_m	AC	253	V
		DC	125	V

2 Non-intrinsically safe signal circuits (terminals 3 – 4 and 1 – 2)

Nominal signal			0(4) … 20	mA
Maximum voltage	U_m	AC	253	V
		DC	125	V

3 Intrinsically safe circuits
The intrinsically safe circuits are galvanically isolated from the non-intrinsically safe circuits and from earth.

3.1 Intrinsically safe output circuit (terminals 10 – 11)

Maximum output voltage	U_o	DC	25.2	V
Maximum output current	I_o		93	mA
Maximum output power	P_o		587	mW

Maximum external inductivity and capacity with separated connection of C_o or L_o, see table

	Group IIB	Group IIC
C_o	820 nF	107 nF
L_o	4 mH	2 mH

Maximum external inductivity and capacity if concentrated C_o and L_o are connected, see tables

For Group IIB

C_o	370 nF	430 nF	510 nF	660 nF	820 nF
L_o	4 mH	1 mH	500 µH	200 µH	100 µH

For Group IIC

C_o	49 nF	63 nF	80 nF	107 nF
L_o	2 mH	1 mH	500 µH	200 µH

The values of Group IIB can be used for areas with combustible dust.

3.2 Intrinsically safe input circuit (terminals 12 – 13)

Maximum input voltage	U_i	DC	30	V
Maximum input current	I_i		150	mA
Maximum internal capacitance	C_i		negligible	
Maximum internal inductance	L_i		negligible	

4 Ambient temperature range $-20\ °C \leq T_a \leq +60\ °C$