



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX TUR 20.0042X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2021-09-02\)](#)
[Issue 0 \(2020-08-05\)](#)
Date of Issue: 2023-02-22
Applicant: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg
Germany
Equipment: **Ex nR Control Panel Type 9851/51-**-**-V****
Optional accessory:
Type of Protection: **Ex nR ec**
Marking: **Ex ec nR IIC T6...T4 Gc or Ex nR IIC T6...T4 Gc (without ec junction box)**

Approved for issue on behalf of the IECEx
Certification Body:

Christian Mehrhoff

Position:

Assigned certifier

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

TUV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Cologne
Germany





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

Manufacturing
locations:

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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-15:2017](#) Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:5.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with 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/TUR/ExTR20.0042/02](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/18](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

General product information:

The Ex nR Control Panel 9851 is an electrical equipment for use in hazardous areas of Zone 2. The Ex nR Control Panel is based on a restricted breathing enclosure. The equipment is designed without test port. Periodic pressure tests of the Ex nR equipment are not required. Optionally a separately certified junction box in type of protection Ex ec can be flanged.

The Ex nR enclosure restricts the entry of flammable gas, vapours or mists. Any electrical equipment in industrial quality may be installed; dissipated power of the installed equipment is limited.

The separately certified Ex ec junction box contains the connection facilities. The terminals and also other built-in components are suitable for Zone 2; they have at least EPL Gc.

There is a wide field of application: For example, customer-specific access points, gateways and routers can be installed.

Electrical data:

The electrical data mainly depend on the equipment in the Ex nR enclosure.

AC/DC Power and Power over Ethernet (PoE) are possible.
Rated values of the equipment and terminal data shall be observed.

The individual rated values will be specified on the marking labels.

Environmental data:

$T_a = -40^\circ\text{C} \dots +70^\circ\text{C}$, without ec control panel

$T_a = -40^\circ\text{C} \dots +65^\circ\text{C}$, with ec control panel

the maximum ambient temperature can be lower due to the internally mounted equipment.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Opening of the Ex nR enclosure is only permitted in exceptional cases. See operating instructions.
2. The stopping plug shall be affixed.
3. The Ex nR Control Panels are maintenance-free. The gaskets of the restricted breathing enclosures shall only be replaced, if the "nR" properties are defeated by opening and closing operation.
4. After opening and closing the Ex nR enclosure (in exceptional cases) one-time testing is required as described in the operating instructions.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Addition of further enclosure parts.
- Setup with enclosure heater.
- Modification of "Special conditions for safe use"

Annex:

[IECEX_TUR_20.0042X_02_Attachment.pdf](#)



Device: Ex nR Control Panel
Type: Type 9851/51-**-**-V**

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

Subject and type

Ex nR Control Panel Type 9851/51-**-**-V**

Type Designation

Ex nR Control Panel	9851 /	5	1	-	*	*	-	*	*	-	V	*	*
	a	b	c	d	e	f	g	h					
Type of equipment:													
Pre-configured enclosure		1											
Control Panel (customer-specific)		5											
Material of enclosure:													
Polyester resin (type 8146)		1											
Ex nR enclosure size:													
227.0 x 170.0 x 131.0 mm		62											
340.5 x 170.0 x 150.0 mm		73											
340.5 x 340.5 x 150.0 mm		83											
340.5 x 340.5 x 230.0 mm		86											
681.5 x 340.5 x 150.0 mm		93											
681.5 x 340.5 x 190.0 mm		95											
Ex ec enclosure size:													
without Ex ec junction box		00											
340.5 x 170.0 x 150.0 mm		73											
340.5 x 340.5 x 150.0 mm		83											
Version:													
not normalized / with order number		00											
consecutively numbered for normalized versions		..											

List of used equipment and components

Device	Manufacturer	Type	Ex-Marking	Certificate no.
Control panel	R. STAHL Schaltgeräte GmbH	7145/5	Ex ec IIC, IIB, IIA, T6, T5, T4 Gc	IECEX TUR 15.0027 / TÜV 18 ATEX 8178
Empty enclosure	R. STAHL Schaltgeräte GmbH	8146/-***-*	Ex eb IIC Gb Ex tb IIIC Db	IECEX PTB 06.0044U / PTB 01 ATEX 1015 U
Earth Conductor Bushing	R. STAHL Schaltgeräte GmbH	8195	Ex e IIC Gb	IECEX PTB 06.0087 / PTB 04 ATEX 1069