

(1) TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**
- (3) Type-Examination Certificate Number

TÜV 20 ATEX 8506 X

Issue: 02

- (4) Equipment: **Ex nR Control Panel , Type 9851/51-**-**-V****
- (5) Manufacturer: **R. STAHL Schaltgeräte GmbH**
- (6) Address: **Am Bahnhof 30
D-74638 Waldenburg, Germany**

- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report 557/Ex8506.02/20

- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN IEC 60079-0: 2018 EN IEC 60079-7: 2015 / A1: 2018 EN IEC 60079-15: 2019

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:



**II 3 G Ex ec nR IIC T6...T4 Gc or
II 3 G Ex nR IIC T6...T4 Gc without ec junction box**

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2023-02-22

Dipl.-Ing. Christian Mehrhoff



This Type Examination Certificate without signature and stamp shall not be valid.
This Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the
TÜV Rheinland Industrie Service GmbH, TÜV Rheinland Group, Am Grauen Stein 51105 Köln
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(13)

Annex

(14)

Type Examination Certificate

TÜV 20 ATEX 8506 X

Issue: 02

(15)

Description of equipment

15.1 Equipment and type:

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

Type Designation:

Ex nR Control Panel	9 8 5 1 /	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
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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	..

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15.2 Description

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:

Ta = - 40°C ... + 70°C, without ec control panel

Ta = - 40°C ... + 65°C, with ec control panel

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

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

Details of change:

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

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(16) Test-Report No. 557/Ex8506.02/20

(17) Special Conditions for safe use

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.

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2023-02-22

Dipl.-Ing. Christian Mehthoff



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