



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 KEM 07.0051X	Issue No: 3	<u>Certificate history:</u> Issue No. 3 (2016-09-14) Issue No. 2 (2014-04-24) Issue No. 1 (2009-05-11) Issue No. 0 (2007-11-09)
Status:	Current	Page 1 of 4	
Date of Issue:	2016-09-14		
Applicant:	R. STAHL Schaltgeräte GmbH Am Bahnhof 30 74638 Waldenburg Germany		
Equipment:	Control Panel 8264/5		
<i>Optional accessory:</i>			
Type of Protection:	Ex d, Ex e, Ex i, Ex m and Ex t		
Marking:	Ex db .. II.. T.. Gb Ex tb IIIC T..°C Db		

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

T. Pijpker

Position:

Certification Manager

*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 Certification B.V.
Meander 1051
6825 MJ Arnhem
The Netherlands





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

Additional Manufacturing location(s):
Electromach B.V. Member of the R. STAHL Technology Group
Jan Tinbergenstraat 193
7559 SP Hengelo
The Netherlands

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 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-18 : 2014 Edition:4.0	Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*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:

[NL/KEM/ExTR07.0049/00](#)

[NL/KEM/ExTR07.0049/01](#)

[NL/KEM/ExTR07.0049/02](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/09](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Control Panel Type 8264/5... consists of one or more enclosures in type of protection flameproof enclosure "d", in which the electrical apparatus is mounted. The electrical connection is made by direct entry or by using terminal boxes or control and distribution boxes in type of protection increased safety "e". Combinations of enclosures are allowed and separately certified electrical apparatus can be installed in or mounted to the enclosure, according to the technical details laid down in the test documentation.

For more detailed information, see annex.

CONDITIONS OF CERTIFICATION: YES as shown below:

The flame path length is more than required by IEC 60079-1. Contact the manufacturer for information on the dimensions of the flameproof joints.

The property classes of the screws are A4-70 for M10 and A4-80 for M12 and M14.



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

Evaluation against the latest standards

New enclosure sizes 8264/*996-*, 997, 998 and 999 added

Change of ambient temperature ranges

Ambient temperature range -60 °C to +60 °C for IIB

Ambient temperature range -60 °C to +60 °C for IIIC

Cement, type DELO GUM removed.

New cemented window

Annex:

[Annex 1 to IECEx KEM 07.0051X.pdf](#)

Annex 1 to Certificate of Conformity IECEx KEM 07.0051X, issue No. 3

The Control Panel Type 8264/5...-... consists of one or more enclosures in type of protection flameproof enclosure “d”, in which the electrical apparatus is mounted. The electrical connection is made by direct entry or by using terminal boxes or control and distribution boxes in type of protection increased safety “e”. Combinations of enclosures are allowed and separately certified electrical apparatus can be installed in or mounted to the enclosure, according to the technical details laid down in the test documentation.

For enclosures type 8264 made of aluminium or stainless steel the following ambient temperature ranges apply:

Enclosures in type of protection Ex d IIB+H2 Gb	-20 °C to +60 °C
Enclosures in type of protection Ex d IIB Gb	-60 °C to +60 °C
Enclosures in type of protection Ex d IIB Gb with windows cemented with (D0083)	-40 °C to +60 °C
Enclosures in type of protection Ex d IIB Gb with windows cemented with (D0143)	-60 °C to +60 °C
Enclosures in type of protection Ex tb IIIC Db	-60 °C to +60 °C
Maximum service temperature	+100 °C

Type Code

8264	/	*	*	*	*	-	*	*	*	*
a	/	b	c	d	e	-	f	g	h	i

a	Type / Series	
b	Design	5 = control
c	Enclosure size – Length [mm]:	0 = Combination 1 = 235 2 = 360 3 = 480 9 = 730
d	Enclosure size – Width [mm]:	0 = Combination 1 = 235 2 = 360 3 = 480 9 = 730
e	Enclosure size – Height [mm]:	0 = Combination 2 = 270 (stainless steel) 3 = 340 (stainless steel) 4 = 260 (aluminium, casted, sheet cover) 5 = 330 (aluminium, casted, sheet cover) 6 = 465 (Welded) 7 = 570 (Welded) 8 = 480 (Welded, retaining / captive screws) 9 = 585 (Welded, retaining / captive screws)
f	Enclosure material	2 = Stainless steel 3 = Aluminium
g ... i	Additional variations filled in, if required not affecting certification	

Annex 1 to Certificate of Conformity IECEx KEM 07.0051X, issue No. 3

Type of protection

The following marking can be used according to the type of protection required for installed equipment and components to flameproof enclosure:

- (1) Protection level: db, eb, ia, ib, [ia Gb], mb, op is, op pr, q
- (2) Subdivision of Group II: IIB or IIB+H₂
- (3) Temperature class: T6, T5 or T4
- (4) Maximum surface temperature: T80 °C, T95 °C or T130 °C

If batteries are built within the enclosure, these must comply with the applicable clauses of IEC 60079-1 : 2014, Annex E.

If equipment with optical radiation is built within the enclosure, this equipment must comply with the applicable clauses of IEC 60079-28 : 2014.

Temperature class

The temperature class of the Control Panel T4 to T6 is based on the power dissipation of the apparatus and components mounted in the flameproof enclosure and on the temperature class of the components mounted in the terminal box or control and distribution boxes. The lowest temperature class is normative. The maximum surface temperature T 80 °C, T 95 °C or T 130 °C is related to the temperature class of the control unit.

When cemented window(s) are used within the enclosure, the maximum surface temperature shall not exceed 100°C.

When controls with an IP66 degree are used, the maximum surface temperature shall be 80 °C.

Electrical data

The data are dependent on the built-in apparatus and the cable entries and feed-through used and are to be taken from the applicable certificates and manufacturers' data.

Rated voltage	max.	11 kV
Rated current	max.	1250 A
Nominal conductor cross section	max.	630 mm ²

Degree of protection according to IEC 60529

The Control Panel without controls provides a degree of ingress protection of at least IP66.
The Control Panel with controls provides a degree of ingress protection of IP64 or IP66.