



# 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](http://www.iecex.com)

Certificate No.: IECEx PTB 06.0032U issue No.:1

Status: **Current**

Certificate history:  
Issue No. 1 (2013-5-31)  
Issue No. 0 (2006-4-10)

Date of Issue: **2013-05-31** Page 1 of 4

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

Electrical Apparatus: **Control unit, type 8208\*\*\_\*\*\_\*\*\*\***  
*Optional accessory:*

Type of Protection: **Flameproof enclosure "d", Increased Safety "e"**

Marking: Ex d e IIC Gb resp. Ex d e I Mb  
Tamb -60 °C to +60 °C

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

Dr. Ing. Uwe Klausmeyer

*Position:*

Head of Section "Flameproof Enclosures"

*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:

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





# IECEx Certificate of Conformity

Certificate No.: IECEx PTB 06.0032U

Date of Issue: **2013-05-31**

Issue No.: 1

Page 2 of 4

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:

<b>IEC 60079-0 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2007-04</b> Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-7 : 2006-07</b> Edition: 4	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:

DE/PTB/ExTR06.0037/01

##### Quality Assessment Report:

DE/BVS/QAR10.0002/02



# IECEx Certificate of Conformity

Certificate No.: IECEx PTB 06.0032U

Date of Issue: **2013-05-31**

Issue No.: **1**

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

#### Description of equipment

The control unit, type 8208/\*\*-\*\*-\*\*\*\*, is a flameproof enclosure designed to accommodate electrical, electronic and electromechanical components. It is used for actuating and controlling electric control circuits. The control unit is an electrical equipment for using in locations exposed to the danger of explosions in zone 1 and 2.  
For more informations see annex.

### CONDITIONS OF CERTIFICATION: NO



# IECEx Certificate of Conformity

Certificate No.: IECEx PTB 06.0032U

Date of Issue: **2013-05-31**

Issue No.: **1**

Page 4 of 4

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

### Details of certificate changes

- 1) Minimum temperature is decreased to -60 °C
- 2) Maximum temperature is increased up to + 60 °C
- 3) New test according to IEC 60079-0: 2011 (Ed. 6), IEC 60079-1: 2007 (Ed. 6), IEC 60079-7: 2006 (Ed. 4)
- 4) New marking



Applicant: R. STAHL Schaltgeräte GmbH  
Am Bahnhof 30  
74638 Waldenburg (Württ.)  
Germany

Electrical Apparatus: Control unit type 8208/\*\*-\*\*-\*\*\*\*

### Description of equipment

The control unit, Type 8208/\*\*-\*\*-\*\*\*\*, is a flameproof enclosure designed to accommodate electrical, electronic and electromechanical components. It is used for actuating and controlling electric control circuits. The control unit is an electrical equipment for using in locations exposed to the danger of explosions in zone 1 and 2.

Connection is by means of the integrated four terminals.

### Nomenclature

8208	/	*	*	-	**	-	****
1	/	2	3	-	4	-	5

- 1) type series
- 2) version:  
1 = without rod  
2 = with rod
- 3) Connection mode:  
4 = thread joint
- 4) additional information without reference to explosion-protection
- 5) additional information without reference to explosion-protection

### Technical data:

Rated insulation voltage: 500 V  
Rated operation voltage: 550 V  
Rated current): max. 5A

Maximal internal heat dissipation (Connection with min. 1,5 mm<sup>2</sup> conductors and maximal 5 A)

type	Surrounding temperature max. 40 °C		Surrounding temperature max. 60 °C	
	T <sub>surface</sub> = max. 80 °C	T <sub>surface</sub> = max. 95 °C	T <sub>surface</sub> = max. 80 °C	T <sub>surface</sub> = max. 95 °C
8208/1	3,0 Watt	4,75 Watt	1,5 Watt	2,0 Watt
8208/2	2,0 Watt		1,0 Watt	

The control unit is designed for -60 °C to +100 °C temperature resistance and can be employed in areas of temperature class T6 or T5.



---

**Notes for installation and operation**

The control unit shall be fitted in an enclosure that meets the requirements of an approved type of protection in accordance with IEC 60079-0, section 1.

When installing the control unit in an enclosure designed to type of protection Increased Safety “e” as specified in IEC 60079-7, the clearance and creepage distances shown in section 4.4, section 4.5, and table 1 shall be duly considered.