



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 SIQ 18.0003X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 2	Issue 1 (2021-05-20) Issue 0 (2018-02-02)
Date of Issue:	2023-02-10		
Applicant:	R. STAHL Schaltgeräte GmbH Am Bahnhof 30, 74638 Waldenburg Germany		
Equipment:	Ammeter, type: 8402/6		
Optional accessory:			
Type of Protection:	Intrinsic safety "i"		
Marking:	Ex ib IIC T4...T6 Gb		

Approved for issue on behalf of the IECEx
Certification Body:

Bojan Pečavar

Position:

Certification Manager

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:

Slovenian Institute of Quality and Metrology (SIQ)
Masera-Spasicева ulica 10
SI-1000 Ljubljana
Slovenia





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

Manufacturing locations: **ISKRA, d.o.o., PE MIS**
Ljubljanska cesta 24a
Kranj SI-4000
Slovenia

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 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

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 Reports:

[SI/SIQ/ExTR18.0003/00](#)

[SI/SIQ/ExTR18.0003/01](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Ammeter, type: 8402/6, is used for measurement and display of current values in hazardous area. It is intended to be used in intrinsically safe circuit with the standardized signals from 0 to 20 mA. Moving coil is used as measuring system.

Manufacturer's instructions:

Ammeters for Ex i circuits 8402/6 (BQ0307), Certification Operating Instruction 8402 0 000 023 0, Version: 2.0, R. STAHL Schaltgeräte GmbH, 9. 5. 2022

Technical details:

See Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Ammeters are suitable for following temperature classes within corresponding ambient temperature ranges:
 - temperature class T4 ... $-55^{\circ}\text{C} \leq T_{\text{amb}} \leq +70^{\circ}\text{C}$
 - temperature class T5 ... $-55^{\circ}\text{C} \leq T_{\text{amb}} \leq +55^{\circ}\text{C}$
 - temperature class T6 ... $-55^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$
- Ammeter shall only be cleaned with damp or electrostatically dissipative cloth.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- New editions of standards were considered.
- Minimum service temperature was decreased from -40°C to -55°C.

Annex:

[Annex_to_IECEX_SIQ_18.0003X_Issue_2.pdf](#)



Technical details:

Ammeter	Type: 8402/6
Measuring range	20 mA d.c., 0...20 mA 20 mA d.c., 4...20 mA
Intrinsically safe parameters: - Nominal current - Maximum short circuit current - Internal resistance - Internal inductance - Internal capacitance	$I_n = 20 \text{ mA}$ $I_i = 160 \text{ mA}$ $R_i = 3 \Omega$ $L_i = 90 \mu\text{H}$ $C_i = 0$
Housing – connection and terminals holder	Polyamide or Polycarbonate
Ingress protection with terminal cover	IP20
Movement	Moving coil
Mounting	TS35 mounting rail
Rated insulation voltage - Built in additional housing IP20 - Built as independent device	690 V r.m.s. 300 V r.m.s.
Connection - wiring	Solid: 0.34 mm ² ... 6 mm ² (AWG 22 ... 10) Finely stranded or stranded: 0.34 mm ² ... 4 mm ² (AWG 22 ... 12)
Terminal clamp tightening torque	1.2 Nm