

Slovenia

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 **Ex COMPONENT CERTIFICATE**

Certificate No.:	IECEx SIQ 18.0002U	Page 1 of 4	Certificate history:	
Status:	Current	Issue No: 2	lssue 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			
Ex Component:	Ammeter, types: 8406/6 and 8407/6			
	OT intended to be used alone and requires additi atmospheres (refer to IEC 60079-0).	ional consideration when incorporated into other e	equipment or systems	
Type of Protection:	Increased safety "e", Intrinsic safety "i", En	capsulation "m"		
Marking:	Ex eb ib mb IIC Gb			
	Ex eb ib mb I Mb			
Approved for issue or Certification Body:	n behalf of the IECEx	Bojan Pečavar		
Position:		Certification Manager		
Signature: (for printed version)				
Date: (for printed version)				
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Certificate issued	by:			
Slovenian Inst Masera-Spasice Sl-1000 Ljubljan	itute of Quality and Metrology (SIQ) va ulica 10 a	S		



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Date of issue:	2023-02-10	Issue No: 2
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	
IEC Standard list belo found to comply with t	ed as verification that a sample(s), representative of production, wa w and that the manufacturer's quality system, relating to the Ex pro the IECEx Quality system requirements.This certificate is granted s Operational Documents as amended	oducts covered by this certificate, was assessed and

STANDARDS :

The component 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 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-18:2017 Edition:4.1	Explosive atmospheres - Part 18: Protection by encapsulation "m"
IEC 60079-7:2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

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 component listed has successfully met the examination and test requirements as recorded in:

Test Reports:

SI/SIQ/ExTR18.0002/00

SI/SIQ/ExTR18.0002/01

Quality Assessment Report:

DE/BVS/QAR10.0002/18



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Ex Component(s) covered by this certificate is described below:

2023-02-10

Ammeter, types: 8406/6 and 8407/6, is used for measurement and display of current values in hazardous area. It is intended for installation in appropriate enclosure with degree of ingress protection of at least IP54 according to IEC 60079-0. Moving coil is used as measuring system.

Manufacturer's instructions:

Ammeters 8406/6 (BQ0407) and 8407/6 (BQ0307), Certification Operating Instruction 8406 0 000 007 0 and 8407 0 000 006 0, Issue: 2.00, R. STAHL Schaltgeräte GmbH, 9. 5. 2022

Technical details:

See Annex.

SCHEDULE OF LIMITATIONS:

Schedule of limitation:

- Ammeters must be completely installed in an enclosure with degree of ingress protection of at least IP54 according to IEC 60079-0.
- Creepage distances and clearances between the connection terminals and the enclosure parts must be kept according to IEC 60079-7, Table 2.
- Ammeters are suitable for following temperature classes within corresponding ambient temperature ranges at location of installation:
 - temperature class T4 ... -55°C or -40°C \leq T_{amb} \leq +70°C
 - temperature class T5 … -55°C or -40°C ≤ T_{amb} ≤ +55°C
 - temperature class T6 … -55°C or -40°C ≤ T_{amb} ≤ +40°C

Note: If additional suffix " $(-40^{\circ}C)$ " is added to the type reference on the marking label, then the Ammeters are suitable for minimum ambient temperature of $-40^{\circ}C$, otherwise they are suitable for minimum ambient temperature of $-55^{\circ}C$. For details see Operating instructions.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

2023-02-10

- New editions of standards were considered.

- Minimum service temperature was decreased from -40°C to -55°C for Ammeters with one of the used casting compounds.

Annex:

Annex_to_IECEx_SIQ_18.0002U_Issue_2_1.pdf





Technical details:

Ammeter	Types: 8406/6 and 8407/6
Nominal current - measuring range	I _n = 20 mA d.c., 0 20/40 mA
Housing – connection and terminals holder	Polyamide or Polycarbonate
Ingress protection	Without terminal cover: IP00
	With terminal cover: IP20
Rated insulation voltage	690 V
Movement	Moving coil
Fuse rating	I = 160 mA, U _m = 250 V a.c. / d.c.
Overload capacity	$10 \times I_n$ for 5 s, I_{SC} = 200 mA
Mounting	TS35 mounting rail
Connection - wiring	Solid: 1 mm ² 6 mm ² (AWG 18 10)
	Finely stranded or stranded: 1 mm ² 4 mm ² (AWG 18 12)
Terminal clamp tightening torque	1.2 Nm