



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 BAS 08.0061X

Issue No: 4

Certificate history:

Status: **Current**

Issue No. 4 (2018-04-17)

Issue No. 3 (2012-02-14)

Date of Issue: **2018-04-17**

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Issue No. 2 (2010-10-21)

Issue No. 1 (2010-02-16)

Issue No. 0 (2008-01-11)

Applicant: **R. Stahl Schalgerate GmbH**
Am Bahnhof 30
Waldenburg
74638
Germany

Equipment: **YA90C Flameproof Audible Alarm**

Optional accessory:

Type of Protection: **Ex d IIC and Ex tD II**

Marking:

Ex db IIC T6 Ta -60°C to + 60°C Gb

Ex tb IIIC T85 °C Ta -60°C to + 60°C Db IP66

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

R S Sinclair

Position:

Technical 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:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire, SK17 9RZ
United Kingdom





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Manufacturer: **R. Stahl Schalgerate GmbH**
Am Bahnhof 30
Waldenburg
74638
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 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 Explosive atmospheres - Part 0: General requirements
Edition:6.0
IEC 60079-1 : 2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0
IEC 60079-31 : 2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

*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:

[GB/BAS/ExTR08.0121/00](#) [GB/BAS/ExTR09.0259/00](#) [GB/BAS/ExTR11.0081/00](#)
[GB/BAS/ExTR18.0036/00](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/13](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Type YA90C Standard Flameproof Audible Alarm -20 °C to +60 °C comprises a cylindrical enclosure complete with an external horn flare all manufactured in glass reinforced polyester by compression moulding. The enclosure is fitted with a trumpet arrangement manufactured from flame retardant ABS at the front which is held in position by four M5 by 20mm long stainless steel socket head cap screws of grade A4-80, with brass thread inserts embedded in the body shell. A stainless steel sinter is mounted in the centre of each horn flare to facilitate the transmission of sound energy.

The other end of the body is closed by a spigot cover, secured by six M5 x 20mm long stainless steel socket head cap screws with brass thread inserts embedded in the body shell, a Nitrile O ring is fitted in the flange section of the cover for ingress protection.

The interior of the flameproof housing comprises a driver unit potted into position behind the sinter, together with an circuit board and connecting terminals for 2.5mm² conductors.

Internal and external earthing facilities are provided by an integral M5 stainless steel stud arrangement.

Cable entry holes are provided as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with certified flameproof stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component).

When this unit is intended for use in dust atmospheres the cable entries shall be sealed, in accordance with the applicable installation code of practice, to ensure that the IP6X ingress protection rating is maintained.

When used in an explosive dust atmosphere the cable entry devices shall maintain the ingress protection of the enclosure.

Variation 0.1

The Sounder may be marked with the alternative ambient temperatures of -60 °C to +60 °C when successfully pressure tested. In this form the unit is identified as the YA90C LT Flameproof Audible Alarm.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Painting and surface finishes, other than those applied by the manufacturer, are not permitted.
2. When this unit is intended for use in dust atmospheres the cable entries shall be sealed, in accordance with the applicable installation code of practice, to ensure that the IP6X ingress protection rating is maintained.



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

Variation 4.1

To allow the product YA90C Flameproof Audible Alarm, to be assessed against the following standards: IEC 60079-1:2014 Edition 7 and IEC 60079-31:2013 Edition 2

ExTR: **GB/BAS/ExTR18.0036/00**

File Reference: **17/0704**