



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 TRC 14.0019X Issue No: 0 Certificate history:
Issue No. 0 (2015-10-07)

Status: **Current** Page 1 of 3

Date of Issue: **2015-10-07**

Applicant: **AMETEK Process Instruments**
455 Corporate Boulevard,
Newark,
DE 19702
United States of America

Electrical Apparatus: **Sulfur Recovery Analyzer 888**
Optional accessory:

Type of Protection: **Flameproof, Purge**

Marking: Ex d pxb IIC T3 Gb

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

Stephen Winsor

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:

TRaC Global Ltd.
Unit 1 Pendle Place
Skelmersdale
West Lancashire
WN8 9PN
United Kingdom





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Manufacturer: **Ametek Process Instruments**
455 Corporate Boulevard,
Newark,
DE 19702
United States of America

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:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-2 : 2014-07 Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure "p"
Edition:6

*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/TRC/ExTR15.0019/00](#)

Quality Assessment Report:

[NO/DNV/QAR11.0005/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The 888 is a photometric sulfur gas analyzer. Specifically it monitors the level of hydrogen sulfide and sulfur dioxide gas in a customer process stream. The customer uses this information to balance the ratio of hydrogen sulfide to sulfur dioxide and efficiently recover the sulfur via a chemical reaction.

The 888 is designed to be directly fastened to the customer process pipe. A sample of the customer process gas is drawn through it (via a probe) and then returned to the process pipe. A Xenon flash lamp is used to illuminate the sample of the process gas. Four photodiodes and four band pass optical filters are used to measure the intensity of the light. The light intensity is used to calculate the gas concentrations. The 888 maintains the sample at a temperature of 150°C to prevent any elemental sulfur present from condensing onto the optical surfaces. There is also an optional provision to clean the 888 using steam to prevent the build-up of any contamination.

The 888 is rated 120VAC, 50-60Hz, 500W OR 240VAC, 50-60Hz, 500W (dependent upon Configuration) and has been designed for permanent Outdoor use in Zone 1 locations with ambient temperatures within the range of -20°C to 60°C .

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The installer must install a second pressure regulator on the input of the unit to mitigate any risk from a single regulator failure in the system.
2. The Customer Connection Enclosure of the 888 must be terminated in accordance with country and local electrical codes.
3. The installer must install appropriate protection from light to ensure that the resistance to light of the 888, or parts of the 888 is satisfactory.
4. The installer must ensure that the installation minimizes the risk from Electrostatic Discharge.

Annex:

[Annex to IECEx TRC 14.0019X is 0.pdf](#)