



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 DNV 23.0057X** Page 1 of 5 [Certificate history:](#)
Issue 0 (2024-02-14)

Status: **Current** Issue No: 1

Date of Issue: 2026-05-05

Applicant: **AMETEK Canada LP**
2876 Sunridge Way N.E.
Calgary, Alberta T1Y 7H9
Canada

Equipment: **Sulfur Recovery Analyzer 888**

Optional accessory:

Type of Protection: **Flameproof and Pressurized Enclosure**

Marking: Ex db pxb IIC T3 Gb
-20°C ≤ Tamb ≤ +60°C

Approved for issue on behalf of the IECEx
Certification Body:

Asle Kaastad

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:

DNV Product Assurance AS
Veritasveien 1
1363 Høvik
Norway





IECEX Certificate of Conformity

Certificate No.: **IECEX DNV 23.0057X**

Page 2 of 5

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Manufacturer: **AMETEK Canada LP**
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Calgary, Alberta T1Y 7H9
Canada

Manufacturing locations: **AMETEK Canada LP**
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Canada

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 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-2:2014](#) Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure "p"
Edition:6

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:

[GB/TRC/ExTR15.0019/00](#)

[NO/DNV/ExTR23.0021/00](#)

[NO/DNV/ExTR23.0021/01](#)

Quality Assessment Report:

[NO/DNV/QAR25.0011/00](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX DNV 23.0057X**

Page 3 of 5

Date of issue: 2026-05-05

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Model 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 Model 888 is designed to be directly fastened to the customer process pipe. A sample of the customer process gas is down through it (via 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 samples 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 overall dimensions of the unit (H x W x D) are 87.63cm x 91.44cm x 27.31cm (34.5" x 36.0" x 10.75"). It consists of three enclosures attached to a mounting plate, interconnecting cabling via Ex Cable Glands, and a purging system. The three enclosures are as follows:

Electronics Enclosure

18 Gauge 316 SS enclosure measuring (H x W x D) 60.96cm x 40.64cm x 25.4cm (24" x 16" x 10"). It provides all electronics communications for the analyzer. A stainless steel piezo-electric keypad and accompanying glass covered display provide an interface for the user to communicate with the unit. It contains a variety of components including power supplies, fuses, terminal strips, a lamp assembly, SIL 2 rated temperature converter, pressure sensors, etc.

Customer Connection Enclosure

Enclosure measuring approximately (H x W x D) 20.32cm x 12.7cm x 20.32cm (8" x 5" x 8"). It contains the power and feedback electrical connections. Enclosure is Model GUB 3S AP MI, manufactured by Officine Meccaniche M.A.M.

Sample Systems Oven

18 Gauge 316 SS enclosure measuring (H x W x D) 60.96cm x 40.64cm x 25.4cm (24" x 16" x 10"). It contains the sample system conditioning components. The sample gas is extracted into the 150°C oven, but is contained via a series of metal, glass, and rubber plumbing and optics. The only electrical component present in this enclosure is the Heater Assembly which consists of a heater and twin embedded 100Ω RTD's all embedded within an aluminum heat sink. The oven is set to run at a cell temperature of 150°C.

SPECIFIC CONDITIONS OF USE: 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.



IECEX Certificate of Conformity

Certificate No.: **IECEX DNV 23.0057X**

Page 4 of 5

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Equipment (continued):

Electrical Data

120VAC / 240VAC, 50-60Hz, 500W (dependent upon configuration)

Purge data

Minimum Purging Flow Rate..... 141 L/min

Minimum Purge Time..... 3 Minutes

Protective Gas..... Air / Nitrogen

Minimum Supply Pressure..... 3.45 bar

Maximum Supply Pressure..... 6.90 bar

Maximum Leakage Rate..... 6 L/min

Minimum Overpressure..... 0.62 mBar

Maximum Overpressure..... 5.08 mBar



IECEX Certificate of Conformity

Certificate No.: **IECEX DNV 23.0057X**

Page 5 of 5

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Update applicant address from Ametek Newark, Delaware, USA to Ametek Calgary, Canada. Minor documentation updates.