

[1]

EU-TYPE EXAMINATION CERTIFICATE

[2] Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

[3] EU-Type Examination Certificate Number: **DNV 23 ATEX 19819X** **Issue 1**

[4] Product: **Model 888 Sulfur Recovery Analyzer**

[5] Manufacturer: **AMETEK Canada LP**

[6] Address: **2876 Sunridge Way N.E.
Calgary, Alberta T1Y 7H9
Canada**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] DNV Product Assurance AS, notified body number 2460, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in confidential reports listed in item 16.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018, EN 60079-1:2014 and EN 60079-2:2014

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the technical design of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

 **II 2 G Ex db pxb IIC T3 Gb -20°C ≤ Tamb ≤ +60°C**

Date of issue:
2026-05-05



Asle Kaastad
For DNV Product Assurance AS
The Certificate has been digitally signed.



[13] **Schedule**

[14] **EU-Type Examination Certificate No:** DNV 23 ATEX 19819X Issue 1

[15] **Description of Product**

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 drawn 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.

Type Designation:

Model 888

Electrical Data:

120VAC / 240VAC, 50-60Hz, 500W

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

Routine Tests:

- 1) A functional verification for the correct operation of the Ex certified purging system (Pepperl + Fuchs, Model 6000-DV-S2-XD-AC) and Ex certified enclosure relief vent with flow and pressure monitoring (Pepperl + Fuchs, Model EPV-6000-AA-01) shall be carried out.
- 2) Routine leakage test shall be carried out on the pressurized enclosure in accordance with IEC 60079-2, Clause 17.2.

[16] **Report No.:** 2024-3005, Issue 01
Project No.: PRJN-346466

[17] **Specific Condition(s) of Use**

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.

[18] **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

[19] **Drawings and documents**

Number	Title	Rev.	Date
10247-19-1	LABEL, 888/888L WARNINGS	A	2023-01-27
10317-19-1	LABEL, 888/888L WARING, OVEN ENCLOSURE	A	2023-03-31
10793-15-5	Model 888 Tail Gas Analyzer ATEX-IECEX Essential Health & Safety Requirements	C	-
000137001	LABEL, Model PN SN MFG YEAR VOLT HZ WATT	D	2025-10-27
883030913	DECAL, 888 X-PURGE STARTUP INSTRUCTIONS	B	2015-06-04
883033901	888 CERTIFICATION DRAWING ATEX/IECEX ZONE 1	E	2026-03-31
883109001	LABEL, ATEX/IECEX 888	J	2025-10-27
883109011	LABEL, BATTERY HOLDER, HOST DISPLAY	B	2015-09-24

[20] **Certificate History**

Issue	Description	Issue date	Report no.
0	Original issue	2024-02-14	2024-3005, Issue 00
1	Update applicant address from Newark, DE to Calgary, Canada. Minor documentation updates not impacting safety assessment.	2026-05-05	2024-3005, Issue 01

Compliance of the product with the applicable safety requirements of the relevant industrial standards has not been verified and is not covered by this certificate.

END OF CERTIFICATE