

[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: **Presafe 19 ATEX 05476X** **Issue 1**

[4] Product: **Model 888L Tail Gas Analyzer**

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

[6] Address: **AMETEK Canada LP
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, EN 60079-2:2014, and EN 60079-7:2015+A1:2018

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 eb [ib] pxb IIC T3 Gb -20°C ≤ T_A ≤ +60°C**

Date of issue:
2026-05-04



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



[13] **Schedule**

[14] **EU-Type Examination Certificate No:** Presafe 19 ATEX 05476X **Issue 1**

[15] **Description of Product**

The AMETEK Model 888L Tail Gas Analyzer uses photometric analysis to continuously monitor hydrogen sulfide (H₂S) and sulfur dioxide (SO₂) present in the tail gas stream of a Claus plant, and provides four, 4 to 20 mA, analog outputs into a maximum 1000 ohm load.

The analyzer consists of an Analyzer Panel and Probe Enclosure. Connecting Sample Bundle is supplied and installed by the user, must comply with all certification requirements for the hazardous area and may be up to 20 m long. Installation of the bundle must be in accordance with standard IEC/EN 60079-14.

The Analyzer Panel consists of an Electronics Enclosure; a Temperature-Controlled Cell Enclosure; and a Customer Disconnect Enclosure. These enclosures are assembled onto a rigid mounting stainless steel panel (Analyzer Panel) for support. The Customer Disconnect Enclosure is a component certified flameproof enclosure (supplied completely machined by MAM) and the electrical components shown in the certification drawing are installed by AMETEK. The Cell Enclosure consists of an Ex certified heater plate assembly, a non-electrical sample system and an Ex e protected stainless steel sheathed RTD that enters from the Electronics Enclosure.

The Probe Enclosure consists of a non-electrical sample system, an Ex certified heater plate assembly, an additional stainless steel sheathed RTD and an Ex e junction box for connections to power and signal lines from the Electronics Enclosure. The junction box is component certified and component certified terminals are installed by AMETEK. The additional RTD circuit on this assembly is considered “eb” and subjected to routine dielectric test.

The analyzer is designed for outdoor, Zone 1 classified Explosive Atmospheres. The methods of protection used include Type “pxb” pressurized enclosure, and Type “db” (flameproof enclosure) and Ex e (increased safety). The purge controller also uses types “d” and “ib”.

Items outside of the pressurized electronics and flameproof customer disconnect enclosures include the heater plates, which are Ex d certified and two RTDs (one in the cell enclosure and one in the probe enclosure), which are evaluated as Ex e for this report. An Ex e enclosure is used to make wiring connections between the probe and disconnect enclosures.

Type Designation: Model 888L

Electrical Data: 100 Vac (90–110 Vac), 47-63 Hz, 500 W Analyzer Panel + 400 W Probe Enclosure
 120 Vac (105-132 Vac), 47-63 Hz, 500 W Analyzer Panel + 400 W Probe Enclosure
 240 Vac (209-264 Vac), 47-63 Hz, 500 W Analyzer Panel + 400 W Probe Enclosure
 Sample Bundle: Maximum voltage of 240 Vac (209-264 Vac), 47-63 Hz
 Maximum current of 20 Amps

Purge Data:

Minimum Purge Flow Rate:	282 L/min
Minimum Purge Duration:	5 Minutes
Protective Gas:	Air or N ₂
Maximum Leakage Rate:	15 L/min

Minimum Overpressure:	0.62 mBar
Maximum Overpressure:	5.08 mBar
Supply Pressure:	4.13-6.90 Bar

Degrees of protection (IP Code): IP65

Routine Tests:

- 1) Electronics Enclosure: Functional test per Clause 17.1 and leakage test per Clause 17.2 of IEC 60079-2.
- 2) Probe Enclosure: Dielectric test per Clause 7.1 of IEC 60079-7 on the power circuits (1500VAC) and RTD circuits (500VAC).
- 3) Cell RTD: 500VAC dielectric test per Clause 7.1 of IEC 60079-7 prior to connecting to the circuit terminals.

[16] **Report No.:** 2019-9476
Project No.: PRJN-144592-2019-PA-USA

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

- 1. Heated sample line and associated power termination kits provided by customer must be installed in accordance with the manufacturer’s instructions, any X-Conditions and carry minimum Ex IIC T3 Gb rating.
- 2. The purge control keypad and display is a potential electrostatic discharge hazard. Use only a damp cloth to clean. The installer must ensure that the installation minimizes the risk from electrostatic discharge.
- 3. 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.
- 4. The analyzer must be shaded from direct sunlight.

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

Met by compliance with the requirements mentioned in item 9.

[19] **Drawings and documents**

Number	Title	Rev.	Date
883033903	888L ANALYZER, ATEX CERTIFICATION DRAWING	D	2026-04-01
883056903	Model 888L Tail Gas Analyzer ATEX-IECEX	D	-

[20] **Certificate History**

Issue	Description	Issue date	Report no.
0	Original Issue	2020-08-11	2019-9476, Issue 00
1	Update applicant. EHSR document (manual) updated to include correct X-Conditions and product label.	2026-05-04	2019-9476, 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