CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **KEMA 02ATEX2341 X** Issue Number: **4**

(4) Product: **Model 9XX Purged Analysers**

(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) DEKRA Certification B.V., Notified Body number 0344 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 test report number NL/DEK/ExTR13.0052/02.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 : 2012 + A11 : 2013 **EN 60079-1 : 2014** **EN 60079-2 : 2014**
EN 60079-7 : 2015 + A1 : 2018 **EN 60079-11 : 2012**

except in respect of those requirements listed at item 18 of 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 specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. 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 ia pxb IIB T3 Gb

Date of certification: 5 February 2019

DEKRA Certification B.V.

T. Pijpker
Certification Manager

PRODUCTS RvA C 001

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(13) # SCHEDULE

(14) **to EU-Type Examination Certificate KEMA 02ATEX2341 X** Issue No. **4**

(15) **Description**

The Model 9XX Purged Series of Analysers is intended to monitor the level of acid gases in industrial processes, and generate indications and electrical output signals appropriate to the conditions detected. They are designed with an infallible internal containment system. A 21 key membrane keyboard and flat screen electro luminescent display are provided on the enclosure door.

All electrical and electronic components are mounted within or upon a single enclosure, manufactured in painted sheet steel in type of explosion protection "p" with continuous flow.

The functioning of the analyser depends upon the operation of two specific devices, the Type 900 Heater Plate Assembly and the Optical Bench. Power to the analyser is controlled by the Expo Technologies Ltd. purge control system and Ametek Disconnect Enclosure Type 200.

In certain operational configurations, manifolds for sample or calibration gases may be fitted on the left and/or right hand side of the pressurised enclosure. Unspecified numbers of solenoid valves and pressure transducers may be incorporated into these manifolds. If so they are arranged so that the solenoid coils and transducers are within the enclosure for inclusion in the pressurisation protection. When the manifolds are not fitted, the apertures are sealed by blanking plates.

Ambient temperature range -20 °C to +50 °C.

Electrical data

Power supply …….	108 - 132 or 216 - 264 Vac, max. 100 W

Pressurization data

Air supply pressure ……..……...	400 kPa - 800 kPa
Free internal volume ……..…….	124 l
Min. purge and continuous flow ……	40 l/min.
Purge time ……..…….	15 min.
Min. overpressure ……..…….	50 Pa
Max. overpressure ……..…..……...	1000 Pa
Max. leakage rate ……..…….	10 l/min.

Process data

Process pressure ……	max. 63 kPa (0 - 30 psi transducer) max. 350 kPa (0 - 100 psi transducer)

The service pressure is monitored by the purge control unit, mounted on top of the pressurised enclosure.

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate KEMA 02ATEX2341 X** Issue No. **4**

(16) **Report Number**

No. NL/DEK/ExTR13.0052/02.

(17) **Specific conditions of use**

The analyser may only be energized by using the bypass switch with permission of the works manager or his proxy. The permission may only be given when it is made sure that during the time the system is energized by using this switch an explosive atmosphere is not present or when the necessary protective measures against explosion hazard have been taken ("hot permit").

The analyser enclosure shall not be opened when an explosive atmosphere is present.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR13.0052/02.

(20) **Certificate history**

Issue 1 -	202533800	initial certificate.
Issue 2 -	216442600	update to EN 60079-0 : 2012, EN 60079-1 : 2007, EN 60079-2 : 2007 and EN 60079-7 : 2007.
Issue 3 -	381725100	update to EN 60079-0 : 2012 + A11 : 2013, EN 60079-1 : 2014, EN 60079-2 : 2014 and EN 60079-7 : 2015.
Issue 4 -	382222300	update purge control unit model no. to include Ex ia electronic timer option and markings to include Ex ia, update EN 60079-7 standard