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 DEK 13.0054X	Issue No: 2	Certificate history:
			Issue No. 2 (2019-02-05)
Status:	**Current**		Issue No. 1 (2017-02-15)
		Page 1 of 5	Issue No. 0 (2014-08-18)
Date of Issue:	**2019-02-05**		

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

Equipment: **Gas Analyser, Model 9XX**

Optional accessory:

Type of Protection: **Ex db eb ia pxb**

Marking:

Ex db eb ia pxb IIB T3 Gb

Approved for issue on behalf of the IECEx Certification Body: T. Pijpker

Position: Certification Manager

Signature:
(for printed version)

Date: 2019-02-05

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.

Certificate issued by:

DEKRA Certification B.V.
Meander 1051,
6825 MJ Arnhem
The Netherlands

DEKRA

Certificate No:	IECEx DEK 13.0054X	Issue No: 2
Date of Issue:	**2019-02-05**	
Manufacturer:	**Ametek Canada LP** 2876 Sunridge Way N.E. Calgary Alberta T1Y 7H9 **Canada**	

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 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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-2 : 2014-07 Edition:6	Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure "p"
IEC 60079-7 : 2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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:

NL/DEK/ExTR13.0052/02

Quality Assessment Report:

NL/DEK/QAR12.0037/04

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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.

SPECIFIC CONDITIONS OF USE: YES as shown below:

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.

EQUIPMENT (continued):

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 pressurized enclosure.

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

1. Update purge control unit model no. to include Ex ia electronic timer option and markings to include Ex ia.
2. Assessment per IEC 60079-7:2017 (Ed. 5.1).