



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 12.0035X	Issue No: 3	<u>Certificate history:</u> Issue No. 3 (2016-12-15) Issue No. 2 (2015-11-01) Issue No. 1 (2013-06-05) Issue No. 0 (2012-07-16)
Status:	Current	Page 1 of 4	
Date of Issue:	2016-12-15		
Applicant:	AMETEK Canada LP 2876 Sunridge Way N.E. Calgary Alberta T1Y 7H9 Canada		
Equipment:	Analyzer, Series 93X		
Optional accessory:			
Type of Protection:	Ex db		
Marking:	Ex db IIB+H2 T3 Gb or Ex db IIB+H2 T3 or Ex db IIB T3 Gb or Ex db IIB T3		

Approved for issue on behalf of the IECEx
Certification Body:

L.G. van Schie

Position:

Certification Manager

Signature:
(for printed version)

Date:

2016-12-16

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](http://www.iecex.com).

Certificate issued by:

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





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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 electrical 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 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1 : 2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

*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:

[CA/CSA/ExTR15.0014/00](#)
[NL/DEK/ExTR12.0026/02](#)

[NL/DEK/ExTR12.0026/00](#)
[NL/DEK/ExTR12.0026/03](#)

[NL/DEK/ExTR12.0026/01](#)

Quality Assessment Report:

[NL/DEK/QAR12.0037/02](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Analyzer, Series 93X is a UV Spectrophotometer used for the analysis of various fluids. It consists of two flameproof enclosures interconnected by a flameproof seal assembly. The upper enclosure contains optical bench, micro controller, measuring cell and optional cell heater. The lower enclosure contains connection interface board, power supply, host controller, optional heated column block and optional ModBus Gateway. It is intended to be connected to certified solenoids.

For the type designation, thermal and electrical data see Annex 1 to this certificate.

CONDITIONS OF CERTIFICATION: YES as shown below:

See the installation instructions for dimensions of the flameproof joints.



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

- Alternative potting materials for communication port
- Optional ModBus gateway
- Re-added Group IIB marking

Annex:

[381698400-Annex 1.pdf](#)

Annex 1 to Report NL/DEK/ExTR12.0026/03

Annex 1 to Certificate of Conformity IECEx DEK 12.0035X, issue 3

Annex 1 to EU-Type Examination Certificate KEMA 02ATEX2247 X, issue 4

Description

Analyzer, Series 93X is a UV Spectrophotometer used for the analysis of various fluids. It consists of two flameproof enclosures interconnected by a flameproof seal assembly. The upper enclosure contains optical bench, micro controller, measuring cell and optional cell heater. The lower enclosure contains connection interface board, power supply, host controller, optional heated column block and optional ModBus Gateway. It is intended to be connected to certified solenoids.

Type designation

933 ...

I variants

Designation	Explanation	Value	Explanation
I	Model	931	Single Gas H ₂ S Analyzer
		932	Multi Gas H ₂ S Analyzer
		933	H ₂ S in Natural Gas
		934	Sensor Specific Gas Analyzer

Note: Other variants may appear in the type designation, but are not relevant for this certificate or not included in the scope.

Technical data

Ambient temperature range: 0 °C to +50 °C.
Sampling gas temperature range: 0 °C to +50 °C (with optional column block).
Sampling gas temperature range: 0 °C to +165 °C (without optional column block).

Rated voltage: 120 V / 240 V, 50/60 Hz
Power dissipation: 210 W without optional cell heater
310 W with optional cell heater

Sample gas pressure: max. 1 380 kPag
Sample gas flow: max. 20 nL/min