CERTIFICATE OF CONFORMITY



1.	HAZARDOUS LOCATION ELECTRICAL E	QUIPMENT PER CANADIAN REQUIREMENTS	
2.	Certificate No:	FM22CA0056	
3.	Equipment: (Type Reference and Name)	Unical 9000-X and Uniclean 900-X Automated Measurement, Cleaning and Calibration Control System	
4.	Name of Listing Company:	Knick Elektronische Messgeräte GmbH & Co. KG	
5.	Address of Listing Company:	Beuckestrasse 22 Berlin D-14163 Germany	
6.	. The examination and test results are recorded in confidential report number:		
	PR463748 dated 8 th December 2022		
7.	FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:		
		A-C22.2 No. 60079-11:2014, CAN/CSA C22.2 No. 213:2017 CSA-C22.2 No. 94-M91:1991, CSA-C22.2 No. 60529:2016	
8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.			
Certi	ificate issued by:		
J./E. I	8. Marquesture Marquedant Manager - Electrical Systems	8 December 2022 Date	

To verify the availability of the Approved product, please refer to $\underline{www.approvalguide.com}$

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Canadian Certificate Of Conformity No: FM22CA0056

- 9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.
- 10. Equipment Ratings:

Intrinsically Safe for Class I, II, III Division 1, Groups A, B, C, D, E, F, and G, T4 in accordance with drawing 207.011-066; Type 4X, IP65; Ta = -20°C to +50°C

Intrinsically Safe for Class I, Zone 1, Ex ia [ia Ga] IIC T4 Gb with Intrinsically Safe connections to Zone 0 in accordance with drawing 207.011-066; Type 4X, IP65; Ta = -20°C to +50°C

Intrinsically Safe for Zone 21, Ex ia [ia Da] IIIC T130°C Db with Intrinsically Safe connections to Zone 20, in accordance with drawing 207.011-066; Type 4X, IP65; Ta = -20°C to +50°C

Nonincendive for Class I, II, III, Division 2, Groups A, B, C, D, F and G in accordance with drawing 207.011-066; Type 4X, IP65; Ta = -20°C to +50°C; NIFW

11. The marking of the equipment shall include:

Class I, II, III Division 1, Groups A, B, C, D, E, F and G; T4 Ta = -20° C to $+50^{\circ}$ C; Type 4X, IP65 Class I, II, III, Division 2, Groups A, B, C, D, F and G, T4 Ta = -20° C to $+50^{\circ}$ C; Type 4X, IP65 Ex ia IIC [ia Ga] T4 Gb; Ta = -20° C to $+50^{\circ}$ C, Type 4X, IP65 Ex ia [ia Da] IIIC T130°C Db; Ta = -20° C to $+50^{\circ}$ C, Type 4X, IP65

12. Description of Equipment:

General – The Unical 9000-X is an automated measurement, cleaning and calibration control system which consists of the following:

- enclosure with integrated control electronics and the corresponding pneumatic/hydraulic connections.
- Media Connection for operating the retractable probe,
- external Media Adapter for up to three metering pumps with reservoirs for buffer and cleaning solutions and
- external Service Switch for service and measurement

The Uniclean 900-X is identical to the Unical 9000-X but with simplified software and pneumatics, without an external service switch and with only one metering pump and reservoir.

The Unical 9000-X and Uniclean 900-X utilize the same electrical data and ambient temperature range.

Construction - The stainless-steel enclosure is either electro polished or coated with plastic. The front cover is connected to the cabinet by four screws. A flat gasket is located between cover and cabinet. The control electronics are arranged on one pcb together with the electrical terminals. The electronics is encapsulated and connected to the equipotential bonding. The pneumatic and hydraulic connections consist of intrinsically safe piezo valves, pressure gauges, pressure regulators, filters, pressure switches, and the required tubing. The cable glands for the intrinsically safe circuits, the equipotential bonding connection, the air filter, and the media connections for water and air, for example, are located at the bottom side of the enclosure.

Ratings -

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FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com <a href="mai

F 348 (Apr 21) Page 2 of 4

SCHEDULE



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The Unical 9000-X and Uniclean 900-X are rated for use in an ambient temperature range of -20°C to +50°C.

Electrical Ratings -

See control drawing – 207.001-066 for Electrical Ratings

Unical 9000-Xabcdefghij 00 klm Control System

- a = Housing: C, S
- b = Media connection: 1, 2, 3, 4, 5, 6, 7, A, B, C, D, E, F, G
- c = Media interface: 0, 1
- d = Media adapter: 0, 1, A
- e = Equipment for Port I: 0, 2
- f = Equipment for Port II: 0, 2
- g = Equipment for Port III: 0, 2, B
- h = Supplementary air purging kit: C, N
- i = Supplementary ext. valve kit: E, N,
- j = Protective cabinet: 0, 1, 2, 3, 4
- k,l,m = for additional accessories such as material certificates.
 possible values 0 ... 9 omitted if not requested

Uniclean 900-Xabcdefgh 00 ijk Control System

- a = Housing: C, S
- b = Media connection: 1, 2, 3, 4, 5, 6, 7, C, D, F, G
- c = Media interface: 0, 1
- d = Media adapter: 0, 1, A
- e = Equipment for Port: 0, 2, B
- f = Supplementary air purging kit: C, N
- g = Supplementary ext. valve kit: E, N,
- h = Protective cabinet: 0, 1, 2, 3, 4
- l,j,k = for additional accessories such as material certificates. possible values 0 ... 9 omitted if not requested.

13. Specific Conditions of Use:

None

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals Canadian Certification Scheme.

15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

₆ Certificate History

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F 348 (Apr 21) Page 3 of 4

SCHEDULE



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Page 4 of 4

Canadian Certificate Of Conformity No: FM22CA0056

Canadian Certificate Of Comornity No. 1 W22CA0000

Details of the supplements to this certificate are described below:

Date	Description	
8 th December 2022	Original Issue.	

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