



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx UL 18.0023X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2023-10-13)
Date of Issue:	2024-08-28		Issue 1 (2019-07-22)
			Issue 0 (2018-03-19)
Applicant:	PHOENIX CONTACT GmbH & Co. KG Flachsmarktstraße 8 Blomberg, 32825 Germany		
Equipment:	Communication Modules - GW... 1E/1DB9, GW... 1E/2DB9, GW... 2E/2DB9, GW... 2E/4DB9, GW... 1E/1PT, GW... 1E/1TB.		
Optional accessory:			
Type of Protection:	Increased Safety "ec"		
Marking:	Ex ec IIC T4 Gc -40°C to +70°C		

Approved for issue on behalf of the IECEx
Certification Body:

Katy A. Holdredge

Position:

Senior Staff Engineer

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

UL Solutions (US)
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





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Manufacturer: **PHOENIX CONTACT GmbH & Co. KG**
Flachmarktstraße 8, Blomberg, 32825 Germany
Germany

Manufacturing
locations: **PHOENIX CONTACT Development
and Manufacturing, Inc.**
586 Fulling Mill Road
Middletown, PA 17057
United States of America

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with 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 Reports:

US/UL/ExTR18.0029/00
US/UL/ExTR18.0029/03

US/UL/ExTR18.0029/01

US/UL/ExTR18.0029/02

Quality Assessment Reports:

NL/DEK/QAR11.0009/09

NL/DEK/QAR11.0012/06



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

This family of products contains serial device servers and gateways for converting serial data (RS-232/422/485) or I/O terminal to Ethernet data (RJ45).

Communication Modules:

Model Series GW...xE/xDB9, where the first x can be 1 or 2 and the second x can be 1, 2 or 4 and '...' is any alphanumeric character or blank related to firmware variations.

Models GW...1E/1PT and GW...1E/1TB, where '...' is any alphanumeric character or blank related to firmware variations.

Model Differences:

Model GW... 1E/2DB9 is identical to model GW... 1E/1DB9 except it has two rather than one DB9 connectors.

Both have a single RJ45 connector for Ethernet.

Model GW... 2E/4DB9 is identical to model GW... 2E/2DB9 except it has four rather than two DB9 connectors. Both have dual RJ45 connectors for Ethernet.

Models GW... 1E/1PT and GW... 1E/1TB are similar to model GW... 1E/1DB9 except they utilize different I/O connector types rather than a DB9 connector.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The equipment must be installed in a suitably-certified tool-secure enclosure providing a minimum ingress protection of IP54 in accordance with IEC 60079-0.
- The equipment shall only be used in an area of not more than pollution degree 2, as defined in IEC 60664-1.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: Revision to drawings and minor component revisions.

Issue 2: Alternate design of models, and update of standard edition for IEC 60079-0.

Issue 3: Addition of new models GW... 1E/1PT and GW... 1E/1TB.

Annex:

[Annex to IECEx UL 18.0023X Issue 3.pdf](#)



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Annex to Certificate No.:

IECEX UL 18.0023X

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PARAMETERS RELATING TO THE SAFETY

Model	Rating
GW... 1E/1DB9 GW... 1E/1PT GW... 1E/1TB	10.8-30 VDC, 60 mA
GW... 1E/2DB9	10.8-30 VDC, 85 mA
GW... 2E/2DB9	10.8-30 VDC, 100 mA
GW... 2E/4DB9	10.8-30 VDC, 120 mA

MARKING

Marking has to be readable and indelible; it has to include the following indications:

CURRENT DRAW OF PRODUCT AS SPECIFIED:

GW... 1E/1DB9 48mA TYP/60mA MAX
GW... 1E/2DB9 76mA TYP/85mA MAX
GW... 2E/2DB9 88mA TYP/100mA MAX
GW... 2E/4DB9 110mA TYP/120mA MAX
GW... 1E/1PT 48mA TYP/60mA MAX
GW... 1E/1TB 48mA TYP/60mA MAX

PHOENIX CONTACT		GW DEVICE SERVER 1E/1DB9	
Fischmarktstraße 8		Ord. - No. ## ## ## #	
32026 Blomberg, Germany		www.phoenixcontact.com	
Supply Voltage: 10.8V... 30V dc		1 2 3 4 5 6 7 8 9	
Module Current: 48mA TYP / 60mA MAX		DB9 PIN	
Temperature: -40°C... 70°C		RS-232	
AREA RESERVED FOR OTHER APPROVALS AND MARKINGS		DCD RXD TXD DTR GND DSR RTS CTS RI	
		RS-422/485 4 WIRE	
		TIA- DIA- GND DB9+ DB9-	
Default IP: 192.168.254.254 Subnet: 255.255.255.0		Mac: 000000000000	
Refer to installation instructions XXX-#### Conductor temp. ratings must be ≥ 85°C		II 3G Ex sc 3C T4 Gc	
		DEMKO 16 ATEX 2026X IECEX UL 18.0023X	
		WARNING - DO NOT CONNECT OR DISCONNECT WHEN ENERGIZED UNLESS AREA IS KNOWN TO BE NON-HAZARDOUS	
		Made in U.S.A. Serial No. XXXXXXXX	