



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 IBE 15.0034X

Issue No: 1

Certificate history:

Status:

Current

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Issue No. 1 (2016-04-22)

Issue No. 0 (2016-01-29)

Date of Issue:

2016-04-22

Applicant:

PHOENIX Contact GmbH & Co. KG
Flachsmarktstraße 8
32825 Blomberg
Germany

Electrical Apparatus:

Interface converter type PSM-RS-... and PSM ME-REP

Optional accessory:

Type of Protection:

type of protection "n"

Marking:

Ex nA IIC T4 Gc

-40 °C ≤ T_a ≤ +70 °C

Approved for issue on behalf of the IECEX
Certification Body:

Prof. Dr. Tammo Redeker

Position:

Head of Certification Body

Signature:

(for printed version)

Date:

2016-04-22

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:

IBExU Institut für Sicherheitstechnik GmbH
Certification Body
Fuchsmühlenweg 7
09599 Freiberg
Germany



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Manufacturer: **PHOENIX Contact GmbH & Co. KG**
Flachsmarktstraße 8
32825 Blomberg
Germany

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 60079-15 : 2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4

*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:

DE/IBE/ExTR15.0038/00 DE/IBE/ExTR15.0038/01

Quality Assessment Report:

NL/DEK/QAR11.0009/04



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The converter PSM-RS-... and PSM ME-REP serve for converting and amplifying of serial data. They are snapped onto standard EN DIN rails in a suitable switch cabinet and supplied with 24 V AC/DC (SELV).

The provided types are listed in the following Table:

type	function
PSM-ME-RS232/RS485-P	Interface converter RS-232 for RS-485 2/4-wire or 422
PSM-ME-RS485/RS485-P	Repeater for electrical isolation and increased range in RS-485 2-wire bus systems
PSM-ME-REP LON485-P	It is a repeater for electrical isolation and range increasing in LONWORKS RS-485 2-wire bus systems.

Technical data:

ambient temperature range:	-40 °C up to +70 °C
nominal voltage:	24 V (± 20 %) AC or DC
nominal current:	<100 mA
degree of protection (IP code):	IP20
degree of pollution:	2

CONDITIONS OF CERTIFICATION: YES as shown below:

- The converter has to be mounted in an enclosure in a type of protection according to IEC 60079-0, Cl. 1. as well as providing a degree of protection of at least IP54.
- Configuration of device by means of switch is permitted only when the device is de-energized.



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

Due to new EMC tests, the equipment also may be supplied with 24 V AC.