

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

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IECEx BVS 05.0005

Issue No.: 0

Status:

Current

Date of Issue:

2005-04-19

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Applicant:

GeCma Components GmbH

Heisenbergstr. 26 - 40 50169 Kerpen

Germany

Electrical Apparatus: Transmission unit type Challenger TCV2i

Optional accessory:

Type of Protection:

Intrinsic Safety

Marking:

[Ex ib] IIC

Approved for issue on behalf of the IECEx

Certification Body:

Dr. R. Jockers

Position:

Head of Certification Body

Signature:

(for printed version)

Date:

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:

EXAM BBG Prüf- und Zertifizier

Fachstelle für Sicherheit elektrischer Betriebsmittel - BVS Dinnendahlstrasse 9 44809 Bochum Germany





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Manufacturer:

GeCma Components GmbH

Heisenbergstr. 26 - 40

50169 Kerpen Germany

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 manufacture'rs 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: 2004

Electrical apparatus for explosive gas atmospheres - Part 0: General requirements

Edition: 4.0

IEC 60079-11: 1999

Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'

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

IECEx ATR:

File Reference:

DE/BVS/05/2044

A 20040601



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

<u>Description</u>
The transmission unit Challenger TCV2i is a unit for transmission of video and data signals e.g. video, mouse and keyboard from a non-IS circuit into an IS circuit.

The unit is designed for use outside the hazardous area with intrinsically safe circuits leading into the hazardous area.

Non intrinsically safe circuits at the connectors ±12 V,

PS2-Terminals keyboard and mouse, RS485 and VGA input/output

Um AC

2 Connector ST10: IS circuits for the connection of a receiving unit, e.g. a monitor or keyboard For each circuit (each cable pair 1 up to 4)

Voltage	Uo	5.5	V
Current	lo	105	mA
max. external capacitance	Ci	10	μF
max. external inductance	Li	2	mH

Ambient temperature range Ta -10 up to +60 °C

CONDITIONS OF CERTIFICATION: NO