



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 EPS 15.0065X Issue No: 0 Certificate history:
Status: Current Page 1 of 3 Issue No. 0 (2016-04-28)
Date of Issue: 2016-04-28
Applicant: BARTEC GmbH
Max-Eyth-Straße 16
97980 Bad Mergentheim
Germany
Electrical Apparatus: HART add on module types 17-A1Z0-0005 and G7-A0Z0-0007
Optional accessory:
Type of Protection: intrinsic safety ia
Marking:
Ex ia [ia Ga] IIC T4 Gb (17-A1Z0-0005)
or
[Ex ia Ga] IIC (G7-A0Z0-0007)

Approved for issue on behalf of the IECEx
Certification Body:

D. Zitzmann

Position:

Manager Certification

Signature:
(for printed version)

Date:

2016-04-28



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:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





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Manufacturer: BARTEC GmbH
Max-Eyth-Straße 16
97980 Bad Mergentheim
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 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

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:

[DE/EPS/ExTR15.0063/00](#)

Quality Assessment Report:

[DE/TUN/QAR06.0017/07](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The HART add on modules type 17-A1Z0-0005 and G7-A0Z0-0007 are extension modules for operation mounted on an intrinsic safe BARTEC tablet PC. The modules can be connected as a secondary master to a HART-loop for digital HART communication. It allows operations like the configuration of HART devices and network sniffing. The HART loop is connected via two banana sockets.

The device type G7-A0Z0-0007 shall only be used outside hazardous areas and provides an intrinsic safe interface that can be connected to HART loops located in hazardous areas.

Electrical ratings:

Type 17-A1Z0-0005

HART interface: $U_m = 60\text{ V}$; $U_i = 30\text{ V}$; $I_i = 130\text{ mA}$; $U_o = 3\text{ V}$; $I_o = 10\text{ mA}$

USB Power: $U_i = 7.18\text{ V}$; $I_i = 7.550\text{ A}$ (current limited internally)

USB Data: $U_i = 7.83\text{ V}$; $I_i = 1.320\text{ A}$ (current limited internally)

Type G7-A0Z0-0007

HART interface: as for type 17-A1Z0-0005

USB interface: $U_m = 6.5\text{ V DC}$

CONDITIONS OF CERTIFICATION: YES as shown below:

Maximum ambient temperature range: $-20\text{ }^\circ\text{C}$ to $+50\text{ }^\circ\text{C}$.

The HART add on modules shall be protected against strong charge generating processes.

It is allowed to connect the HART add on module to non certified HART circuits outside hazardous areas. $U_m = 60\text{ V}$ shall never be exceeded. The user is responsible to meet this condition.