



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 BVS 09.0055X issue No.:0 Certificate history:

Status: **Current**

Date of Issue: 2009-11-11 Page 1 of 3

Applicant: **BARTEC GmbH**
Max-Eyth-Strasse 16,
97980 Bad Mergentheim
Germany

Electrical Apparatus: **Sensor module type 17-51P2-****/******
Optional accessory:

Type of Protection: **protection by intrinsic safety "i"**

Marking: **Ex ib IIC T4 or Ex ib IIC T6**

Approved for issue on behalf of the IECEx Certification Body: Peter Migenda

Position: Deputy Head of Certification Body

Signature:
(for printed version)

Date:

11.11.2009

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:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

DEKRA
DEKRA EXAM GmbH



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Manufacturer: **BARTEC GmbH**
Max-Eyth-Strasse 16,
97980 Bad Mergentheim
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 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 : 2007-10 Explosive atmospheres - Part 0: Equipment - General requirements
Edition: 5

IEC 60079-11 : 2006 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition: 5

*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/BVS/ExTR09.0054/00

Quality Assessment Report:

DE/TUN/QAR06.0017/02



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

General product information:

Type 17-51P2-****/**** serves as Control- and Display device for pressure measuring, transformation of pressure signals into proportional electrical signals, input of parameters, visual display of data and transfer of data to superior devices It consists of a plastic enclosure with mounting plate or cover plate and internal fixed assemblies.

Type 17-51P2-3****/**** and 17-51P2-4****/**** are completely moulded. There are pneumatic hose connectors outside the enclosure which can be made out off metal or plastic. The electrical connection could be single wires (Type 17*-51P2-1****/**** and 17*-51P2-3****/****) or one cable (Type 17*-51P2-2****/**** and 17*-51P2-4****/****).

Electrical parameters

1 Power supply circuit (wires no. 7 and 8)

voltage	Ui	DC	30 V
effective internal capacitance	Ci		50 nF
effective internal inductance	Li		negligible

2 Power supply circuit 2 LCD (wires no. 1 and 10)

voltage	Ui	DC	7.5 V
current	li		10 mA
power	Pi		20 mW
effective internal capacitance	Ci		negligible
effective internal inductance	Li		negligible

3 Signal circuit (wires 2 - 6 and 9, 11 and 12)

voltage	Ui	DC	7.5 V
effective internal capacitance	Ci		1 µF
effective internal inductance	Li		negligible

4 Power supply and signal circuits connected

Maximum sum of current			250 mA
maximum sum of power			1.2 W

5 Ambient temperature range Ta - 20 °C up to + 60 °C

CONDITIONS OF CERTIFICATION: YES as shown below:

The mounting plate or cover plate should be connected to the ground or should be installed in a separate housing. The protection of the single wire of Type 17*-51P2-1****/**** and 17*-51P2-3****/**** should be guaranteed.

Type Code

See Annex



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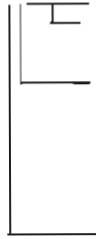


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Type Code:

Instead of the *** in the complete denomination letters or numerals will be inserted which characterize modifications:

Type 17-51P2-****/****



Numerals and letters without influence on explosion protection

Numeral for pressure range

1 = 0 to 25 mbar

2 = 0 to 300 mbar

3 = 0 to 1000 mbar

Numeral for mounting

1 = standard, temperature class T4

2 = front panel, temperature class T4

3 = standard, temperature class T6

4 = front panel, temperature class T6