



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 ITS 07.0014 issue No.:0 History:

Status: **Current**

Date of Issue: **2007-07-04** Page 1 of 4

Applicant: **BEKA associates Limited**
Old Charlton Road
Hitchin
Herts
SG5 2DA
United Kingdom

Electrical Apparatus: **BA201 Communications Isolator**
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **IECEX ITS 07.0014**
[Ex ia] IIC
Tamb = -40°C to +70°C

Approved for issue on behalf of the IECEx Certification Body: **A T Austin**

Position: **Deputy Certification Manager**

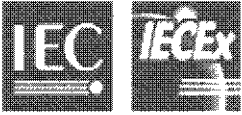
Signature:
(for printed version)

Date: 27 July 2007

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:
Intertek Testing & Certification Ltd
ITS House, Cleeve Road,
Leatherhead,
Surrey, KT22 7SB
United Kingdom





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Manufacturer: **BEKA associates Limited**
Old Charlton Road
Hitchin
Herts
SG5 2DA
United Kingdom

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'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 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-11 : 2006 Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

*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:

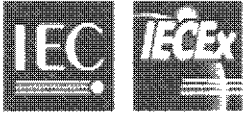
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

GB/ITS/ExTR07.0018/00

Quality Assessment Report:

GB/ITS/QAR06.0002/00



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Schedule

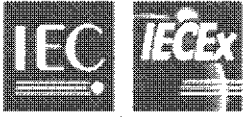
EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

BA201 Communications Isolator is a dedicated interface for connecting intrinsically safe BEKA Serial Text Displays to a non-hazardous area computer system. The BA201 converts a non-hazardous area RS232 or RS485 serial communication signal into a 2 or 3-wire galvanically isolated intrinsically safe voltage and current limited proprietary standard. Four green LEDs on the top of the isolator indicate status-the device is powered and when the RS232 port is being used.

The BA201 comprises a printed circuit board housed within a DIN rail mounting plastic enclosure which provides a degree of protection IP20.

CONDITIONS OF CERTIFICATION: NO



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EQUIPMENT(continued):

Electrical parameters are :

$U_m = 250 \text{ V}$

Terminal TB1- 1 and 3

$U_o = 21.2 \text{ V}$

$I_o = 96 \text{ mA}$

$P_o = 0.51 \text{ W}$

$C_i = 0$

$L_i = 0$

$C_o = 0.183 \text{ } \mu\text{F}$

$L_o = 3.2 \text{ mH}$

Terminal TB1- 2 and 3

$U_o = 13.7 \text{ V}$

$I_o = 84 \text{ mA}$

$P_o = 0.45 \text{ W}$

$C_i = 11 \text{ nF}$

$L_i = 0$

$C_o = 0.78 \text{ } \mu\text{F}$

$L_o = 4.1 \text{ mH}$

Terminal TB1- 1, 2 and 3

$U_o = 21.2 \text{ V}$

$I_o = 159 \text{ mA}$

$P_o = 0.85 \text{ W}$

$C_i = 11 \text{ nF}$

$L_i = 0$

$C_o = 0.172 \text{ } \mu\text{F}$

$L_o = 1 \text{ mH}$