



## 1. EC-TYPE EXAMINATION CERTIFICATE

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**

3. **EC-Type Examination Certificate Number:** ITS14ATEX17967U

4. **Equipment or Protective System:** BEKA 105 x 60 robust panel enclosure

5. **Manufacturer:** Beka Associates Limited

6. **Address:** Old Charlton Road, Hitchin, SG5 2DD, United Kingdom

7. This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8. Intertek Testing and Certification Limited, notified body number 0359 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.





The examination and test results are recorded in confidential Intertek Report G101377532 Issue 1 dated June 2014.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 60079-0:2012, EN 60079-2:2008, EN 60079-7:2007, EN 60079-15:2010 and EN 60079-31:2009 except in respect of those requirements referred to at item 16 of the Schedule.

10. The sign "U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

11. This EC Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12. The marking of the equipment or protective system shall include the following:-

-  II 2 G Ex e IIC Gb
-  II 2 G Ex p IIC Gb
-  II 3 G Ex nA IIC Gc
-  II 1 D Ex ta IIIC Da

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*Vijay K. Varma*  
V K Varma  
Certification Officer  
9<sup>th</sup> June 2014

This certificate may only be reproduced in its entirety and without any change, schedule included and is subject to Intertek Testing and Certification's Conditions for Granting Certification.

## SCHEDULE

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### 13. Description of Equipment or Protective System

The BEKA 105 x 60 robust panel enclosure is an empty enclosure made from stainless steel. Enclosure comprises main enclosure casting with 10mm thick toughened glass and rubber silicon keypad buttons located on the front and four screws on the back of the enclosure for installation of the rear panel and further mounting purposes. Silicone rubber gasket providing degree of protection IP66 is retained to the surface of the front bezel. Enclosures were tested to meet the requirements of IP66 requirements for the front of the enclosure in accordance with IEC 60529.

Enclosures are provided with external earthing stud suitable for earthing wire. There are no openings in the front of the enclosure.

### 14. Report Number

Intertek Report Ref: G101377532 Issue: 1 Dated: June 2014.

### 15. Schedule of Limitations

- For an Ex nA instrument installed in an Ex n or Ex e panel enclosure, the instrument must be powered from an energy-limited circuit. The equipment is allowed to be installed in Zone 2 hazardous location.
- For an Ex nA instrument installed in an Ex px, py or pz panel enclosure, the instrument must be powered from the energy-limited circuit, and the rear panel must provide appropriate vents dependent on the characteristics of the gas used for the pressurised system. The equipment is allowed to be installed in Zone 2 hazardous location.
- For an Ex i instrument installed in an Ex px or py panel enclosure, the instrument must be powered via appropriately rated Zener barrier or galvanic isolator located in a safe area, and the rear panel must provide appropriate vents dependent on the characteristics of the gas used for the pressurised system. The equipment is allowed to be installed in Zone 1 or Zone 2 hazardous location.
- For an Ex i instrument installed in an Ex e panel enclosure, the instrument must be powered via appropriately rated Zener barrier or galvanic isolator located in a safe area. The equipment is allowed to be installed in Zone 1 or Zone 2 hazardous locations dependant on the intrinsically safe level of protection.
- For Ex nA instrument installed in Ex tc panel enclosure the instrument must be powered from the limited energy circuit, so that instrument push button contacts are nonincendive (Ex ic).
- For the Ex i instrument installed in Ex ta or Ex tb panel enclosure the instrument must be powered via appropriately rated Zener barrier or galvanic isolator located in a safe area, so that instrument push button contacts are nonincendive (Ex ia).
- The supply circuit for instruments used in equipment with pressurized type of protection shall be rated for a prospective short circuit current of not more than 10kA.
- Final assembly must be reassessed to the relevant standards taking into consideration all types of protection used
- Service temperature range specified by manufacture is -40°C to +70°C.

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16. **Essential Health and Safety Requirements (EHSR's)**

The relevant EHSR's have been identified and assessed in Intertek Report G101377532 Issue: 1 Dated: June 2014.

17. **Drawings and Documents**

Title	Drawing No.:	Rev. Level:	Date:
ATEX & IECEX Ex nA, Ex p, Ex ta & Ex e Certification for BEKA 105 x 60 ROBUST PANEL ENCLOSURE	CI100-07	1	13.03.2014

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