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: **ITS12ATEX27718X**

4. Equipment or Protective System: **4 and 5 Digit Set Point Stations**

5. Manufacturer: **BEKA ASSOCIATES LIMITED**

6. Address: **Hitchin, Herts, SG5 2DA**

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 Ref 100957553 Issue 1 dated May 2013.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 60079-0:2012, EN 60079-11:2012 and EN 60079-26:2007 except in respect of those requirements referred to at item 18 of the Schedule.

10. If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11. This EC-Type examination certificate relates only to the design and construction 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:-

   (Ex) II 1 G, Ex ia IIC T5 Ga, – 40°C ≤ Ta ≤ +70°C
   II 1 D, Ex ia IIIC T80°C Da IP20, – 40°C ≤ Ta ≤ +70°C

A T Austin
Certification Officer
Date: 20 May 2013

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
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13. SCHEDULE

14 EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS12ATEX27718X

15. Description of Equipment or Protective System

The 4 and 5 Digit Set Point Stations are panel mounting instruments that allow an operator to manually adjust the current flowing in a 4/20 mA loop, incorporate a digital and bargraph display to represent current in engineering units.

The 4 and 5 Digit Set Point Stations may be one of the models listed below:

BA407E and BA408E 4 Digit Set Point Stations
BA427E and BA428E 5 Digit Set Point Stations

The 4 or 5 Digit Set Point Station may optionally be fitted with a Backlight board.

The Digit Set Point Station comprise a main board, a display board and an optional Backlight board, all housed within a plastic enclosure. The enclosure provides a degree of protection of at least IP20.

Intrinsic safety is assured by limitation of voltage, current and power, limitation of capacitance and inductance, and infallible segregation.

The maximum intrinsically safe input and output parameters at the external connections are as follows:

TB1 Terminals 1, 2,3 and 4 (Loop Input)
U_i = 30 V
I_i = 200 mA
P_i = 0.84 W
C_i = 2.2 nF
L_i = 0.008 mH (0.01 mH)
C_o = 63.8 nF
L_o = 0.79 mH

TB2 Terminals 12, 13 and 14 (optional Backlight input)
U_i = 30 V
I_i = 200 mA
P_i = 0.84 W
C_i = 11 nF
L_i = 0
C_o = 55 nF
L_o = 0.8 mH

TB1 Terminals 1, 2, 3 and 4 (loop output) connected in series with TB2 Terminals 12 and 13 (loop powered backlight)
U_i = 30 V
I_i = 200 mA
P_i = 0.84 W
C_i = 2 nF
L_i = 0.008 mH (0.01 mH)
C_o = 64 nF
L_o = 0.79 mH

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13 SCHEDULE

14 EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS12ATEX27718X

TB3 Terminals 5, 6 and 7 (optional remote encoder)

U_i = 30 V
I_i = 200 mA
P_i = 0.84 W
C_i = 0
L_i = 0
C_o = 66 nF
L_o = 0.8 mH

U_o = 5.0 V
I_o = 1.0 mA
P_o = 1.25 mW

16. Report Number:

Intertek Report Ref 100957553 Issue 1 dated May 2013

17. CONDITIONS OF CERTIFICATION:

(a). Special Conditions for safe use

For use in Group IIIC conductive dust atmospheres, the Set Point Station shall be mounted such that the instrument terminals have at least IP6X protection.

(b). Conditions For Use (Routine Tests)

None.

18. Essential Health and Safety Requirements (EHSR's)

The relevant EHSR's have been identified and assessed in Intertek Report Ref 100957553 Issue 1 dated January 2013.

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13 SCHEDULE

14 EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS12ATEX27718X

19. Drawings and Documents

Number	Title	Issue	Date
CI400-01, sheets 1 to 19	ATEX & IECEx Certification Information for BA407E & BA408E 4 Digit Set Point Stations, BA427E, BA428E 5 Digit Set Point Stations	1	Sept.'12

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

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SUPPLEMENTARY EU-Type Examination Certificate

1. **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE**

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**

3. **Supplementary EU-Type Examination Certificate Number: ITS12ATEX27718X/1**

4. **Product:** **4 and 5 Digit Set Point Stations**

5. **Manufacturer:** **BEKA associates Ltd**

6. **Address:** Old Charlton Road,
Hitchin,
Herts,
SG5 2DA

7. This Supplementary Certificate extends EC-Type Examination Certificate No ITS12ATEX27718X to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having variations specified in the Schedule attached to this certificate and the documents therein referred to.

8. Intertek Testing and Certification Limited, Notified Body number 0359 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of the products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

   The examination and test results are recorded in confidential Intertek Reports Ref 100957553 Issue 1 dated May 2013 and G102507332 Issue 1 dated April 2016

9. In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificate referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

In accordance with EC NOTICE TO STAKEHOLDERS WITHDRAWAL OF THE UNITED KINGDOM AND EU RULES IN THE FIELD OF INDUSTRIAL PRODUCTS dated 13 March 2020

This issued certificate - Certificate No: ITS12ATEX27718X

and supporting Technical Construction File underwent a legal transfer of new ownership by signed agreement between the named applicant on this certificate and the 3rd party bodies involved in the transfer from NB0359 to NB2575 on 17 December 2020

Name: Fabrizio Massei

Position: ATEX Certification Officer

Signature:

Date: 17 December 2020

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A T Austin
Certification Officer
21st April 2016

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SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS12ATEX27718X/1

13. Description of the variation to the Equipment or Protective System

The 4 and 5 Digit Set Point Stations are panel mounting instruments that allow an operator to manually adjust the current flowing in a 4/20 mA loop, incorporate a digital and bargraph display to represent current in engineering units.

The 4 and 5 Digit Set Point Stations may be one of the models listed below:
BA407E and BA408E 4 Digit Set Point Stations
BA427E and BA428E 5 Digit Set Point Stations

The 4 or 5 Digit Set Point Station may optionally be fitted with a Backlight board.

The Digit Set Point Station comprise a main board, a display board and an optional Backlight board, all housed within a plastic enclosure. The enclosure provides a degree of protection of at least IP20.

Intrinsic safety is assured by limitation of voltage, current and power, limitation of capacitance and inductance, and infallible segregation.

The maximum intrinsically safe input and output parameters at the external connections are as follows:

TB1 Terminals 1, 2,3 and 4
(Loop Input)

Ui = 30 V
Ii = 200 mA
Pi = 0.84 W
Ci = 2.2 nF
Li = 0.008 mH (0.01 mH)
Co = 63.8 nF
Lo = 0.79 mH

TB2 Terminals 12, 13 and 14
(Optional Backlight input)

Ui = 30 V
Ii = 200 mA
Pi = 0.84 W
Ci = 11 nF
Li = 0
Co = 55 nF
Lo = 0.8 mH

TB1 Terminals 1, 2, 3 and 4
(loop output)
connected in series with TB2 Terminals 12 and 13
(loop powered backlight)

Ui = 30 V
Ii = 200 mA
Pi = 0.84 W
Ci = 2 nF
Li = 0.008 mH (0.01 mH)
Co = 64 nF
Lo = 0.79 mH

TB3 Terminals 5, 6 and 7
(optional remote encoder)

Ui = 30 V
Uo = 5.0 V
Ii = 200 mA
Io = 1.0 mA
Pi = 0.84 W
Po = 1.25 mW
Ci = 0
Li = 0
Co = 66 nF
Lo = 0.8 mH

14. Report Number

Intertek Reports Ref: 100957553 Issue 1 dated May 2013 and G102507332 Issue 1 dated April 2016

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SUPPLEMENTARY EU-Type Examination Certificate

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SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS12ATEX27718X/1

15. Conditions of Certification

(a). Specific Conditions of Safe Use
- None additional to those listed previously

(b). Conditions of Manufacture
- None

16. Essential Health and Safety Requirements (EHSRs)

Compliance with the Essential Health and Safety Requirements (EHSRs) is not affected by this variation.

17. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
ATEX & IECEx Certification Information for BA407E & BA408E 4 Digit Set Point Stations, BA427E, BA428E 5 Digit Set Point Stations	CI400-01, sheets 1 to 19	2	January '16

18. Variation One
Details of Certificate ITS12ATEX27718X changes

Change of resistor, R5 value from minimum 160Ω to minimum 216Ω.
Update to latest version of European Union Directive 2014/34/EU

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