



Intertek Testing Services



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: ITS03ATEX21103

4. Equipment or Protective System: BA405C SETPOINT STATION

5. Manufacturer: BEKA ASSOCIATES LIMITED

6. Address: Old Charlton Road, 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. The ITS 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 Report Number:
ITS Report Ref 03009743 Issue 1, dated May 2003

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014:1997+ Amds 1 & 2, EN 50020:2002 and EN 50284:1999
except in respect of those requirements listed 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, 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 1 G, EEx ia IIC T5 (Tamb= -40°C to 60°C)

R M Adams
Deputy Certification Manager
16 May 2003

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Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA

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ITS Intertek Testing Services

13. **Schedule**
14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS03ATEX21103
15. Description of Equipment or Protective System.

The BA405C SETPOINT STATION is a two wire panel mounting apparatus designed to be connected in a 4/20 mA loop and for the current flowing in the loop to be adjusted manually in the process area.

BA405C may alternatively be identified as a PSI 05 Setpoint Station.

The BA405C Setpoint Station may optionally be fitted with a 3½ digit indicator board to display the adjustment in engineering units.

The BA405C may additionally be fitted with an optional back light board.

The BA405C comprises a setpoint station board, a terminal board or optional 3½ digit indicator main board and a display board, and an optional back light board, all housed within a metallic 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, suppression of inductance and infallible segregation.

The maximum intrinsically safe input and output parameters are as follows:

Terminals 1 and 3

$$U_i = 30V$$

$$I_i = 200 \text{ mA}$$

$$P_i = 0.85W$$

The equivalent parameters are:

$$C_i = 0.04 \mu F$$

$$L_i = 0.01 \text{ mH}$$

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13. **Schedule**
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Terminals 12 and 13

$U_i = 28V$

$I_i = 159 \text{ mA}$

$P_i = 0.8 \text{ W}$

The equivalent parameters are:

$C_i = 0.03 \mu\text{F}$

$L_i = 0.01 \text{ mH}$

16. Report No. ITS Report Ref 03009743.
17. SPECIAL CONDITIONS FOR SAFE USE
None
18. Essential Health and Safety Requirements

The relevant EHSR's that have not been addressed by the standards listed in this certificate have been identified and assessed in ITS Report Ref 03009743 Issue 1, dated May 2003.

19. **DRAWINGS**

Number	Issue	Date	Description
CI405-21, sheets 1 to 20	1	Jan. 03	BA405C Certification Information

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