EU-Type Examination Certificate

1. **EU-TYPE EXAMINATION CERTIFICATE**

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

3. **EU-Type Examination Certificate Number: ITS17ATEX201941X Issue 0**

4. **Product:** FBT-6 & FBT-6-PA Fieldbus Monitor

5. **Manufacturer:** Relcom Inc

6. **Address:** 2221 Yew Street
Forest Grove, OR 97116 USA

7. This product 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 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of 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 Report 103048492CRT-001a-f dated 1 June 2017.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012 + A11:2013 and EN 60079-11:2012 except in respect of those requirements referred to at item 16 of the Schedule.

10. If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Safe Use specified in the Schedule to this certificate.

11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12. The marking of the product shall include the following:

    Ex ia IIC T4 Ga

    -20°C ≤ Ta ≤ +50°C

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Kevin J. Wolf
Certification Officer
06 June 2017

Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

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 FBT-6 Fieldbus Monitor is used to test the condition of the fieldbus physical layer (cables, power conditioner, terminator and wiring blocks). It is a passive device, listening to the communications on a fieldbus and making measurements and displaying them. The FBT-6 has two ports: a fieldbus port (3 colored banana jacks) and a USB port. The fieldbus is connected to the fieldbus network via a 1 m long cable to take measurements. The FBT-6 may be connected to any point on the fieldbus network where the FBT-6 fieldbus cable probes can be connected. Data collected is saved in the FBT-6. The FBT-6 is disconnected from the fieldbus and can then be connected to a PC USB port by connecting the supplied 2 m USB cable between the FBT-6 USB port and the PCB USB port. A model variation, the FBT-6-PA is for use with Profibus PA networks. All of the hardware is identical. The only difference is the internal firmware.

Entity Parameters: 'ia': Ui = 24 V, Ii = 250 mA, Pi = 1.2 W, Ci = 0, Li = 0
FISCO Parameters: Ui = 17.5 V, Ii = 380 mA, Pi = 5.32 W, Ci = 0, Li = 0

14. Report Number

Intertek Report 103048492CRT-001a-f dated 1 June 2017.

15. Special Conditions of Certification

(a). Specific Conditions of Safe Use

- The Fieldbus and the USB connection of the FBT-6(-PA) shall not be connected to electrical circuits at the same time.
- All connections shall be supplied from a galvanically isolated intrinsically safe supply.

(b). Conditions of Manufacture - Routine Tests

N/A

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16. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report 103048492CRT-001i Dated: 1 June 2017

17. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
FBT-6 EX Certification Package	501-349	B.0	08 MAY 2017
FBT-6 EX Safety Instructions	501-350	C.0	16 MAY 2017

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