

# EU TYPE-EXAMINATION CERTIFICATE

1. EU type-examination Certificate (Module B)
2. Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)



3. EU type examination certificate Nr **ITS 17 ATEX 201941X**

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

5. **Manufacturer:** Relcom Inc **Applicant:** Relcom Inc

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

7. This product and any acceptable variation thereto are specified in the schedule to this certificate and therein referred to.

8. INTERTEK ITALIA S.p.A., Notified Body n° 2575 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and Council of the 26 February 2014, certifies that the 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 system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

The examination and tests results are recorded in confidential technical evaluation Intertek Report Nr. 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 Special Conditions for 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:



II 1 G Ex ia IIC T4 Ga

-20°C ≤ Ta ≤ +50°C

14-10-2019

Certificate issue date

**Alessandro Savio**

Certification Officer

Intertek Italia S.p.A. (NB 2575)



PDR N° 277B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

This certificate has been issued by Intertek Italia S.p.A. NB 2575 on transfer from Intertek Testing & Certification Ltd. (NB 0359) using the same issued original certificate number.



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.

**Intertek Italia S.p.A.** Via Miglioli, 2/A - 20063 Cernusco sul Naviglio, Milano - Italy



## SCHEDULE

EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS 17 ATEX 201941X

### 13. DESCRIPTION OF THE 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':  $U_i = 24\text{ V}$ ,  $I_i = 250\text{ mA}$ ,  $P_i = 1.2\text{ W}$ ,  $C_i = 0$ ,  $L_i = 0$

FISCO Parameters:  $U_i = 17.5\text{ V}$ ,  $I_i = 380\text{ mA}$ ,  $P_i = 5.32\text{ W}$ ,  $C_i = 0$ ,  $L_i = 0$

CE Marking shall be accompanied by the identification number of the Notified Body responsible for surveillance of production.

### 14. DRAWINGS AND DOCUMENTS

| TITLE                          | DOCUMENT Nr | 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 |

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

### 15. SPECIAL CONDITIONS FOR 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.

### 16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant essential Health and Safety Requirements have been identified and assessed in Intertek Report 103048492CRT-001a-f dated 1 June 2017.

### 17. ROUTINE (FACTORY) TESTS

None

### 18. DETAIL OF CERTIFICATE CHANGES

None