

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 18 ATEX 23750X**

4. **Product:** Analog Transmitter: MTL831C

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. 103242181CRT-003 dated 13 December 2018.

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 1G Ex ia IIC T4 Ga

-40°C ≤ Ta ≤ +70°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

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13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The Analog Transmitter (MTL831C) is part of a multi-component system that aggregates temperature or mV measurements from field sensors and provides them to the control system (DCS, PLC, etc.). The system consists of the MTL831C, which can connect to 16 sensors, and a Receiver (MTL838C) that makes the data from the sensors available via Modbus/RS485. Up to 2 Analog Transmitters can be connected on the bus to a single Receiver – providing a total of up to 32 sensors per system. An IS isolator (e.g. MTL5053) is used when the MTL831C is installed in a hazardous location (Zone 0, 1, or 2). Sensors connected to the MTL831C may be in Zone 0, 1 or 2.

Power for the MTL831C is provided by the IS isolator. The IS isolator is connected to the MTL831C with twisted shielded pair cable. The cable wires are terminated at the dual input screw-retained pluggable Data Highway port. The dual connector allows connection of an optional second MTL831C. Wires from external sensors are connected to the MTL831C via fixed screw terminals (4 per sensor input, 16 inputs per MTL831C). A green LED indicates minimal voltage is present for the MTL831C. A red LED indicates detection of a fault condition. The unit is housed in a custom polycarbonate case that includes a DIN rail mounting mechanism. Both sides of the PCB are conformally coated. An area on the top of the PCB is spot encapsulated.

U_i = 24V, I_i = 250mA, P_i = 1.2W, C_i = 0, L_i = 0

U_o = 5.88V, I_o = 47.6mA, P_o = 70mW,

Gas Group	Simple Apparatus		Other	
	Co (uF)	Lo (mH)	Co (uF)	Lo (mH)
IIA	987	369	487	184
IIB	987	189	487	94
IIC	30	49	9.4	24

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 equipment is housed within a plastic enclosure. Suitable precautions must be made to avoid rubbing or cleaning with solvents.



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16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant essential Health and Safety Requirements have been identified and assessed in Intertek Report 103242181CRT-003 dated 13 December 2018.

17. ROUTINE (FACTORY) TESTS

Each transformer must be tested for adequate insulation as described below:

- Apply a 600Vrms from the transformer primary to the transformer secondary for 1 second.
- Confirm no more than 5mArms of current flows while the voltage is applied.

18. DETAIL OF CERTIFICATE CHANGES

None