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: ITS18ATEX23750X Issue 0
- 4. Product: Analog Transmitter: MTL831C
- 5. Manufacturer: Relcom Inc.
- 6. Address: 2221 Yew St, 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.
 - 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 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 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:

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Kevin J. Wolf Certification Officer 19 DEC 2018

Intertek Testing & Certification Limited Intertek, Cleeve Road, Leatherhead, Surrey, KT22 7SA Tel: +44 (0)1372 370900 Fax: +44 (0)1372 370977 www.intertek.com

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Page 1 of 2

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EU-Type Examination Certificate



Intertek

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS18ATEX23750X Issue 0

13. Description of 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.

Ui = 24V, Ii = 250mA, Pi = 1.2W, Ci = 0, Li = 0

Uo = 5.88V, Io = 47.6mA, Po = 70mW,

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

Report Number

Intertek Report 103242181CRT-003 dated 13 December 2018

Special Conditions of Certification

- (a). Specific Conditions of Safe Use
 - a) The equipment is housed within a plastic enclosure. Suitable precautions must be made to avoid rubbing or cleaning with solvents.
- (b). Conditions of Manufacture Routine 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.

Page 2 of 3

15.

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SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS18ATEX23750X Issue 0

16. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report 103242181CRT-003 dated 13 December 2018

17. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
*MTL831C Analog Transmitter Ex Certification Package	503-214	A.14	06 DEC 2018
*MTL831C Analog Transmitter Ex Safety Instructions	503-215	A.0	06 NOV 2018

Page 3 of 3

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