

EU-TYPE EXAMINATION CERTIFICATE

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

- EU-Type Examination Certificate Number:** ITS19ATEX105147X **Issue 00**
- Product:** Blind IR Gas Analyzer, Model 4101-28
- Manufacturer:** Sierra Monitor Corporation
- Address:** 1991 Tarob Court
Milpitas, CA 95035-6825
USA
- 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 of the Directive.
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2018 and EN 60079-1: 2014 except in respect of those requirements referred to within item 14 of the Schedule.
- If the sign "X" is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.
- 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.
- The marking of the product shall include the following:

II 2 G



Ex db IIB+H₂ T6 Gb

-20°C ≤ Ta ≤ +60°C

Certification Officer: _____


103729628

Todd L. Relyea

Date: _____

18 March 2020

SCHEDULE:

EU-Type Examination Certificate Number: ITS19ATEX105147X

11. Description of Equipment or Protective System

Equipment is a blind IR gas sensor which is intended to measure ambient concentrations of Methane gas and provide an analog electrical signal output of between 4 and 20 mA. Equipment is rated to accept a nominal power input of 24Vdc; however, equipment is rated for between 10 and 30Vdc. The sensor is housed within an enclosure which has been assessed to the requirements of Ex "d". Enclosure incorporates a sintered metal disk which allows test gas to enter the enclosure to reach the sensing element. The only threaded entry into the enclosure makes up part of the cemented joint and is permanently closed.

12. Report Number

Intertek Report: 103729628DAL-002 Issue: 00 Dated: 13 March 2020.

13. Special Conditions of Certification

(a). Special Conditions of Use

1. Consult the original manufacturer for information on the dimensions of the flameproof joints.
2. Equipment shall be installed into a bonded metallic enclosure or conduit line.
3. Equipment has been evaluated for use with an enclosure of max volume of 0.45 litres.

(b). Conditions of Manufacture

None.

14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: 103729628DAL-002 Issue: 00 Dated: 13 March 2020.

15. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
ASSEMBLY 4101-28 STANDALONE IR SENSOR	A14090	B	8/6/19
ASSEMBLY PCA STANDALONE SENSOR CONTROLLER	A21951	A1	1/2/20
ASSEMBLY PCA STANDALONE IR FRONT END	A21952	A	1/8/19
ASSEMBLY REMOTE IR SENSOR	A21955	A	1/10/19
ASSEMBLY HOUSING SS BLIND SENSOR	A22145	B	8/6/19
FAB, ENCL. SEAL BLIND IR SENSOR SS	F32218	A1	1/21/19
FAB, ENCLOSURE BLIND IR SENSOR SS	F32219	B	7/29/2019
FAB, DISK SINTERED .984" X .1" 100 POROSITY	F39245	A	6/19/18
SPACER BLIND IR SENSOR	F39246	A	7/18/18
FAB, RING, BACK SPACER, IR SENSOR	F39247	A	8/1/18
ARTWORK LABEL, 4101-28 NRTL RATING	H35610	B1	10/24/19
Sentry IT Data Sheet	T12425	A7	Dec 2019

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 Testing & Certification Limited, Cleeve Road, Leatherhead, Surrey, KT22 7SA
Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

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16. Details of Certificate changes Issue 0
None – Original Issue



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