



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Component intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **CSANe 23ATEX1098U** Issue: **0**

4 Component: **Miniature Bearing Temperature Sensors (MBS) Models:
Thermocouples P/N 10-4025 thru 10-4029
Resistance Temperature Device (RTD) P/N 10-4030 thru 10-4034**

5 Applicant: **Conax Technologies LLC**

6 Address: 2300 Walden Ave.
Buffalo, New York 14225
United States

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

8 CSA Group Netherlands B.V. notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of a component intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.


9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0:2018 EN IEC 60079-7:2015/A1:2018 EN 60079-11:2012

10 The sign 'U' is placed after the certificate number to indicate that the product assessed is a component and may be subject to further assessment when incorporated into equipment. Any limitations of use are listed in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.

12 The marking of the component shall include the following:

 II 1G Ex ia IIC Ga
II 2G Ex eb IIC Gb



Signed: M Halliwell

Title: Director of Operations

Project Number 80129813

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CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

CSANe 23ATEX1098U
Issue 0

Entity Parameters:

For Category 1 (Ex ia) Models	
Ui	30 V
Ii	45 mA
Pi	0.4 W
Ci,max*	1.7 nF
Li,max*	0.26 mH

* = Values come from cable specifications and are based on a maximum length of 3m (120").

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	17 October 2023	R80129812A	The release of the prime certificate.

15 SCHEDULE OF LIMITATIONS

- 15.1 Service Temperature: -40°C to 230°C.
- 15.2 For device assemblies designated Levels of protection "Ex eb", the measurement heads shall be installed in a sealed bearing per manufacturer instructions. The assembly extension wires shall be installed in an appropriately certified enclosure (e.g. Ex e) respectively, or greater explosion protection concept), with a minimum ingress protection of IP54 and meets the enclosure requirements of IEC/EN 60079-0 and IEC/EN 60079-7. The suitability of the enclosure is subject to investigation by the local Authority Having Jurisdiction at the time of installation.
- 15.3 End-user shall ensure proper earthing of the device upon installation in accordance with EN 60079-14. The mounting of the device for installation must ensure that the metallic body is reliably connected to system earth, continuity to be checked and confirmed.
- 15.4 The device assemblies designated for Intrinsically Safe "Ex ia" installation are declared prior to installation on the Manufacturer's Ex Marking label using a permanent marking method. These assemblies shall only be powered by an "[Ex ia]" associated apparatus (barrier device).
- 15.5 The device assemblies designated for Increased Safety "Ex eb" installation are declared prior to installation on the Manufacturer's Ex Marking label using a permanent marking method. These assemblies shall only be powered by a supply having either a limited energy electric circuit in accordance with EN 61010-1, or in accordance with EN 62368-1.
- 15.6 The nonmetallic markings label (tag) shall be cleaned only with a damp cloth, and the equipment shall be mounted to avoid building static electric charge from nonconductive process flow, strong air currents, or other potential charging through friction.

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