



EU-TYPE EXAMINATION CERTIFICATE

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

Certificate Number: **Sira 03ATEX1279X** Issue: **6**

Equipment: **EXP-1 Lamp**

Applicant: **Endress+Hauser Conducta Inc.**

Address: **4123 East La Palma Ave
Suite 200
Anaheim
CA 92807-1813
USA**

This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

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 equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment 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.

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/AC:2020-02

EN 60079-1:2014

If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

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

The marking of the equipment shall include the following:



II 2 G

Ex db IIC T5 Gb

Signed: Michelle Halliwell

Title: Director of Operations



Project Number 80156849

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SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The EXP-1 lamp is used as a light source for Endress+Hauser Conducta Inc in-line optical process meters in potentially explosive atmospheres, rated 2-18 Vdc, 6VA Max. The housing of the lamp includes two screw on end caps to complete the flameproof enclosure. The top cap includes a cemented lens for the light output from the internal lamp and the bottom cap houses an ATEX certified metal cable gland terminated onto a length of power cable for connection to a power source. The thread of the top cap holding the lens is permanently locked in place with Loctite 271. An M3 set-screw is used to lock the bottom cap in place.

Internally the components are variable to accommodate one of three lamp options:
Incandescent, gas filled or U.V Mercury vapour lamps

Variation 1 - This variation introduced the following changes:

- i. The recognition of a change to the Applicant's name and address from Wedgewood Technology at 300 Industrial Road, San Carlos, California 94070 to Endress+Hauser Conducta Inc. 4123 East La Palma Ave, Suite 200, Anaheim, CA 92807-1813.

Variation 2 - This variation introduced the following changes

- i. The review and upgrade of the certificate listed to the latest standards: EN 60079-0:2009 and EN 60079-1:2007
- ii. The certification code is changed as follows: from EEx d IIC T5 to Ex d IIC T5 Gb

Variation 3 - This variation introduced the following changes:

- i. The method of marking by laser engraving was approved, associated drawing changes were recognised.
- ii. The removal of the logo from the label and other minor changes which do not affect the aspects of the product that are relevant to explosion safety.

Variation 4 - This variation introduced the following changes:

- i. Following the appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2009 and EN 60079-1:2007 were replaced by EN 60079-0:2012/A11:2013 and EN 60079-1:2014. The markings in section 12 were updated accordingly to recognise the new standards and a special condition for safe use was introduced.

Variation 5 - This variation introduced the following changes:

- i. To permit the correction of the product name, from "EXP-1 Test Lamp" to "EXP-1 Lamp".
- ii. To permit the change of outer housing material, from 303 stainless steel to 316L stainless steel.
- iii. To permit the removal of obsolete drawings that are no longer required as part of this certification.
- iv. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, the standard previously listed, EN 60079-0:2012/A11:2013, is replaced by EN IEC 60079-0:2018/AC:2020-02.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

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14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	24 March 04	R51A10277A	The release of the prime certificate.
1	27 August 09	R51A19467A	This Issue covers the following changes: <ul style="list-style-type: none">All previously issued certification was rationalised into a single certificate, Issue 1, Issue 0 referenced above is only intended to reflect the history of the previous certification and has not been issued as a document in this format. The introduction of Variation 1.
2	11 June 10	R21072A/00	The introduction of Variation 2.
3	15 April 2014	R31453A/00	The introduction of Variation 3.
4	23 February 2016	R70055840A	The introduction of Variation 4.
5	15 October 2019	1399	<ul style="list-style-type: none">Transfer of certificate Sira 03ATEX1279X from Sira Certification Service to CSA Group Netherlands B.V.EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. (In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)
6	07 February 2023	R80156849A	The introduction of Variation 6.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

- 15.1 The test lamp shall be installed such that the front window is protected from mechanical damage.
- 15.2 The test lamp is constructed with a permanently connected free cable end, which must be terminated to an external circuit in-line with the manufacturer's installation instructions.
- 15.3 In accordance with clause 7.5 of EN 60079-0:2012/A11:2013, the equipment must be connected to ground and the resistance shall not exceed $10^9 \Omega$.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF MANUFACTURE

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.
- 17.2 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Certificates.
- 17.3 The manufacturer shall substitute, on the approved label affixed to the apparatus, the new name and address for the old name and address.

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Certificate Annexe



Certificate Number: Sira 03ATEX1279X
Equipment: EXP-1 Lamp
Applicant: Endress+Hauser Conducta Inc.

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
A011-5100-20	1 of 1	0	04 Mar 04	Incandescent Lamp B.O.M.
A011-5100-30	1 of 1	0	04 Mar 04	U.V. Lamp B.O.M.
A011-5100-50	1 of 1	0	04 Mar 04	Gas Filled Lamp B.O.M.
0100-5001-03	1 of 1	4	04 Mar 04	Lamp General Assembly
0100-5004-00	1 of 1	4	15 Jul 97	Lamp Housing
0100-5005-00	1 of 1	2	26 Jul 96	Lamp Cable Entry End Plate
0100-5006-00	1 of 1	2	15 Jul 97	Lamp Window Holder
0100-5007-00	1 of 1	0	10 Jul 91	Lamp Window
0100-5008-10	1 of 1	3	04 Mar 04	Lamp Window Holder/ Window Assembly
3150-5203-03	1 of 1	2	11 Apr 03	Product Label

Issue 1

Drawing	Sheets	Rev.	Date (Stamp)	Title
A011-5100-20	1 of 1	1	27 Aug 09	Incandescent Lamps BOM
A011-5100-30	1 of 1	1	27 Aug 09	UV Lamp BOM
A011-5100-50	1 of 1	1	27 Aug 09	Gas Filled Lamp BOM
0100-5001-03	1 of 1	5	27 Aug 09	Lamp General Assembly
0100-5004-00	1 of 1	5	27 Aug 09	Lamp Housing
0100-5005-00	1 of 1	3	27 Aug 09	Lamp Cable Entry End Plate
0100-5006-00	1 of 1	3	27 Aug 09	Lamp Window Holder
0100-5007-00	1 of 1	1	27 Aug 09	Lamp Window
0100-5008-10	1 of 1	4	27 Aug 09	Lamp Window Holder/Window Assembly
3150-5203-03	1 of 1	3	27 Aug 09	Product Label

Issue 2

Drawing	Sheets	Rev.	Date (Stamp)	Title
3150-5203-03	1 of 1	4	10 Jun 10	Product Label

Issue 3

Drawing	Sheets	Rev.	Date (Stamp)	Title
403683	1 of 1	F	15 Apr 14	Atex Explosion proof lamp assembly
402752	1 of 1	D	15 Apr 14	EXP -I Plate End - XP
200706	1 of 1	A	15 Apr 14	Engraved label - Atex Exp Proof Lamp

Issue 4

Drawing	Sheets	Rev.	Date (Stamp)	Title
200706	1 of 1	B	06 Feb 16	Engraved label -ATEX

Issue 5 – No new drawings were introduced.

Issue 6

The modifications assessed in this report are detailed in the following drawings:

Drawing	Sheets	Rev.	Date (Stamp)	Title
211058933	1 of 1	I	29 Apr 22	Atex Explosion proof lamp assembly
211059066	1 of 1	A	31 Mar 22	Lamp Window Holder
211059207	1 of 1	E	31 Mar 22	EXP – 1 Plate End – XP
211059448	1 of 1	A	31 Mar 22	Lamp Housing

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Applicant: Endress+Hauser Conducta Inc.

The following drawings are no longer required and are removed from the certificate:

Drawing	Sheets	Rev.	Date (Stamp)	Title
0100-5001-03	1 of 1	5	27 Aug 09	Lamp General Assembly
0100-5005-00	1 of 1	3	27 Aug 09	Lamp Cable Entry End Plate
3150-5203-03	1 of 1	4	10 Jun 10	Product Label
0100-5004-00	1 of 1	5	27 Aug 09	Lamp Housing
0100-5006-00	1 of 1	3	27 Aug 09	Lamp Window Holder
403683	1 of 1	F	15 Apr 14	Atex Explosion proof lamp assembly
402752	1 of 1	D	15 Apr 14	EXP –I Plate End – XP

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