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www.tssa.org

August 10, 2021

ROUND ENGINEERING INC
10 SEGWUN RD
WATERDOWN ON L8B 0K6

Workorder Type: Registration - Fitting(Conventional)

Workorder No: 8015199

Your Reference No.: REF#R-1117C - RENEWAL OF CRN#0F17063.5 - CONDUMAX CLS15/CLS15D/CLS15E
CONDUCTIVITY SENSORS - ENDRESS + HAUSER CONDUCTA INC

Registered to: ENDRESS + HAUSER CONDUCTA INC

Dear SCOTT ISLIP,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission has been reviewed and registered as follows:

CRN : 0F17063.5R1

Main Design No.:

Expiry Date: Aug 10, 2031

Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

See 2 sheets of attachment to Statutory Declaration for scope of registration, P/T ratings, connection sizes and scope of manufacturing locations

The stamped copy of the approved registration and the invoice are mailed separately (There will be no hard copies for electronic submissions). Should you have any questions or require further assistance, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Kaivan Kia P. Eng., PMP
Engineer, BPV



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TECHNICAL STANDARDS & SAFETY AUTHORITY
 14th Floor, Centre Tower
 3300 Bloor Street West
 Toronto, Ontario
 Canada M8X 2X4

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below

Endress+Hauser

**STATUTORY DECLARATION
 Registration of Fittings**

I, LEONARD AMBROSINI, GENERAL MANAGER
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of ENDRESS+HAUSER CONDUCTA INC.
(Name of Manufacturer)

Located at SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX 1-714-577-5600
(Plant Address) (Telephone No.) (Fax No.)

do solemnly declare that the fittings listed hereunder, which are subject to the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, comply with all of the requirements of ASME B31.3, ASME B31.1
(Title of recognized North American Standard)

which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with _____ as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO:9001 which has been verified by the following authority, SQS

The items covered by this declaration, for which I seek registration, are category F type fittings. In support of this application, the following information and/or test data are attached as follows:
DRAWINGS, CALCULATIONS, REPORTS, SCOPE OF CRN

(drawings, calculations, test reports, etc.)

Declared before me at _____ in the _____ of _____

the _____ day of _____ AD 20____.

Commissioner for Oaths:

(Printed name)

(Signature)

See attached acknowledgment

(Signature of Declarer)

FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category _____.

CRN: _____

Registered by: _____

Dated: _____

NOTE: This registration expires on August 10, 2031.

Technical Standards and Safety Authority Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0F17063.5R1

Signed: *K. Kia*

Date: August 10, 2021.

See registration letter for any terms and conditions for this registration.
 August 10, 2021. TSSA

CALIFORNIA ALL- PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California }

County of Orange }

On 01/29/2020 before me, Laurel Boles,
(Here insert name and title of the officer)

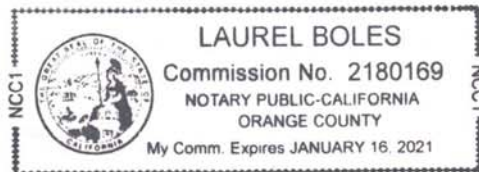
personally appeared Leonard Ambrosini,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is are subscribed to the within instrument and acknowledged to me that he she/they executed the same in his her/their authorized capacity(ies), and that by his her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Laurel Boles
Notary Public Signature

(Notary Public Seal)



ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT

Technical Standards & Safety Authority
(Title or description of attached document)

Registration of Fittings
(Title or description of attached document continued)

Number of Pages 1 Document Date 01/29/2020

CAPACITY CLAIMED BY THE SIGNER

Individual (s)
 Corporate Officer

_____ (Title)

Partner(s)
 Attorney-in-Fact
 Trustee(s)
 Other _____

INSTRUCTIONS FOR COMPLETING THIS FORM

This form complies with current California statutes regarding notary wording and, if needed, should be completed and attached to the document. Acknowledgments from other states may be completed for documents being sent to that state so long as the wording does not require the California notary to violate California notary law.

- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. ~~he~~/she/~~they~~, is /are) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
 - ❖ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
 - ❖ Indicate title or type of attached document, number of pages and date.
 - ❖ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document with a staple.

SCOPE OF CRN REGISTRATION

PRODUCT DESCRIPTION

Description (Note 1)	Design Standard	Process Connections	Drawings	EH TI Document
Condumax CLS15 / CLS15D / CLS15E	ASME B31.3, ASME B31.1, ASME BPE, ASME VIII-1 UG-101	1/2" NPT, 3/4" NPT, G1/2 and 1-1/2" ASME BPE, ISO2852 Clamp Ferrule (Note 2)	414908-B, 211052888-I, 140093-0415-F, 140584-0415-F	TI00109C/07/EN/14.14

PRESSURE - TEMPERATURE RATINGS

MDMT	MAXIMUM OPERATING CONDITIONS	NOTES
-4°F	13 bar absolute at 20°C / 188 psia (173.3 psig) at 68°F, 1 bar absolute at 120°C / 14 psia (0 psig) at 284°F - See EH TI Document	It is recommended that the sensor be subjected to sterilization at 284°F for only a short time (1 hour approximately)

MATERIALS OF CONSTRUCTION

PROCESS CONNECTION MATERIAL (NOTE 3,4)	SENSOR MATERIAL	NOTES
Type 316L Stainless Steel ASTM A479-316L, (1.4404, 1.4435), UNS S31603 and PES-GF20 (Polyethersulfone)	Type 316L Stainless Steel ASTM A479-316L, (1.4404, 1.4435), UNS S31603, PES-GF20 (Polyethersulfone)	Optional process connection materials may be used. See Note 3.

Note 1) This CRN Registration covers the CLS15, CLS15D and CLS15E conductivity sensors. During the lifecycle of this product it may be necessary to update the sensor electronics that have no effect on the pressure retaining ability of the sensor. When this occurs the E in the product code will change to F which is the next letter in the alphabet. This process of updating the sensor electronics may occur multiple times during lifecycle of this product and therefore as long as the pressure retaining components of the sensor do not change the last letter in the above product code has no effect on the validity of the CRN.

Note 2) The ASME BPE Ferrule connection shall be used with a clamp, however the assembly clamp is not part of this CRN. Pressure-Temperature ratings may be limited by the clamp type used in the joint assembly. The clamp used to complete the joint shall have its own CRN and shall have pressure-temperature ratings the same or higher than the product ratings.

SCOPE OF CRN REGISTRATION

Note 3) The following additional alloys of superior or equivalent properties to those listed above are also included in the Scope of Registration:

- ASTM A182-316L
 - ASTM A182-304
 - ASTM A479-304
 - ASTM A182-304L
 - ASTM A479-304L
 - ASTM A182-316
 - ASTM A479-316
 - ASTM B462 UNS N08020 Alloy 20
 - ASTM B366 UNS N08020 Alloy 20
 - ASTM B564 UNS N10276 Hastelloy C-276
 - ASTM B574 UNS N10276 Hastelloy C-276
 - ASTM B366 UNS N06022 Hastelloy C22
 - ASTM B564 UNS N06022 Hastelloy C22
 - ASTM B462 UNS N10675 Hastelloy B3
 - ASTM B564 UNS N10675 Hastelloy B3
 - ASTM B335 UNS N10675 Hastelloy B3
 - ASTM B564 UNS N04400 Monel 400 (Limited to 100°F max. under this CRN)
 - ASTM B164 UNS N04400 Monel 400 (Limited to 100°F max. under this CRN)
 - ASTM B166 UNS N06600 Inconel 600
 - ASTM B564 UNS N06600 Inconel 600
 - ASTM B564 UNS N06625 Inconel 625
 - ASTM B446 UNS N06625 Inconel 625
 - ASTM B425 UNS N08825 Inconel 825
 - ASTM B564 UNS N08825 Inconel 825
 - ASTM A479 UNS S31803 Duplex
 - ASTM A182-F51 UNS S31803 Duplex
 - ASTM A479 UNS S32750 Super Duplex
 - ASTM A182-F53 UNS S32750 Super Duplex
 - ASTM A479 UNS S32760 Super Duplex
 - ASTM A182-F55 UNS S32760 Super Duplex
 - ASTM B381-F3 UNS R50550 Titanium Grade 3
- (Note Titanium limited to 247°F max for ASME B31.3 Service and 173°F max. for ASME B31.1 Service under this CRN.)

Note 4) In accordance with ASME B31.1 para. 123.1.2(D) when this product is manufactured from a ASME B31.1 unlisted material and used under the ASME B31.1 code the facility owner must accept the use of the unlisted material.

Note 5) See Attached List of Endress+Hauser Manufacturing locations applicable to this CRN.

WORLDWIDE LOCATIONS APPENDIX – PAGE 1 OF 1

**ENDRESS+HAUSER CONDUCTA GMBH & CO. KG LOCATIONS
& CERTIFYING AUTHORITIES**

(rev. June 17, 2020)

Endress+Hauser Conducta GmbH & Co. KG

Dieselstrasse 24 / Postfach 100 154
70839 Gerlingen
Germany
ISO 9001 Certified by SQS

Endress+Hauser Conducta GmbH & Co. KG

Siemensstraße 2
64823 Groß-Umstadt
Germany
ISO 9001 Certified by SQS

Endress+Hauser Conducta Waldheim

Gewerbegebiet Richzenhain
Landsberger Straße 28
04736 Waldheim
Germany
ISO 9001 Certified by SQS

Endress+Hauser Conducta, Inc.

4123 East La Palma Ave, Suite 200
Anaheim, CA 92807
United States of America
ISO 9001 Certified by SQS

**Endress+Hauser Analytical Instruments
(Suzhou) Co., Ltd.**

No. 31 JiangTianLiLu
Suzhou Industrial Park 215126
People's Republic of China
ISO 9001 Certified by SQS

THIS IS PART OF CRN
0F17063.5R1
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program