

October 18, 2021

Attention: Cecylia Garbacz
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO, ON M9W 6N9

The design submission, tracking number 2021-05206, originally received on September 27, 2021 was surveyed and accepted for registration as follows:

CRN : 0F17063.52 **Accepted on:** October 18, 2021

Reg Type: RENEWAL **Expiry Date:** August 10, 2031

Drawing No. : SCOPE OF CRN REGISTRATION

Fitting type: CONDUMAX CONDUCTIVITY SENSOR: CLS15/CLS15D/CLS15E

Design registered in the name of : ENDRESS + HAUSER CONDUCTA INC

The registration is conditional on your compliance with the following notes:

*** The Scope of this Submission include 10-years renewal, adding a new sensor type CLS15E, and adding additional process connections*

*** See attached Scope of CRN Registration, and a list of manufacturing locations for details*

*** Design Report #: R-1117C Rev 0*

As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction are ASME B31.3 and ASME B31.1.

- It is our understanding that the fitting(s), included as the scope of this submission, that is(are) subject to the Safety Codes Act shall comply with the requirements of the indicated Standard or Code of Construction on the AB-41 Statutory Declaration as supported by the attached data which identifies the dimensions, materials of construction, press./temp. ratings and the basis for such ratings, and the identification marking of the fittings.
- This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.
- This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date.
- Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3337 or fax (780) 437-7787 or e-mail Dick@absa.ca.

Sincerely,



DICK, ASHLING, P. Eng.



the pressure equipment safety authority

9410 - 20 Ave N.W.
Edmonton, Alberta, Canada T6N 0A4
Tel: (780) 437-9100 / Fax: (780) 437-7787

October 18, 2021
DOP Cert. No. D00007936

**STATUTORY DECLARATION
Registration of Fittings**

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.

Endress+Hauser 

I, LEONARD AMBROSINI, GENERAL MANAGER
(name of applicant) (position title) (must be in a position of authority)
of ENDRESS+HAUSER
(name of manufacturer)
located at SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX
(plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (check one)

- comply with the requirements of ASME B31.3, ASME B31.1 which specifies the dimensions, (title of recognized North American Standard) materials of construction, pressure/temperature ratings and identification marking of the fittings, 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 (title of code of construction or other applicable document) data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, SQS (ISO 9001) as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are

CATEGORY F
(brief description of fittings)

In support of this application, the following information, calculations and/or test data are attached:

DRAWINGS, CALCULATIONS, REPORTS, SCOPE OF CRN

DECLARED before me at _____ in the _____ of _____
(city) (province or state)
this _____ day of _____, _____
(Month) (Year)
(print) _____
(a Commissioner of Oaths or Notary Public) *See attached acknowledgment*
(sign) _____ (signature of applicant)

For ABSA Office Use Only:

NOTES: **** Condumax Conductivity Sensor: CLS15/CLS15D/CLS15E. See Scope of CRN Registration and a list of manufacturing locations for details.**

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Clause 4.2, and is accepted for registration in Category _____

Registration Number: _____ (Signature of the Administrator)

Date Registered: _____ Expiry Date: _____

The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulation.

ABSA
SAFETY CODES ACT - PROVINCE OF ALBERTA
ACCEPTED: CF17063.52
See acceptance letter for conditions of registration.
Date: 2021-10-18 By: Tate Asheng Dick
ASHENG DICK, P. Eng.
DOP: D00007936

This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.

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)

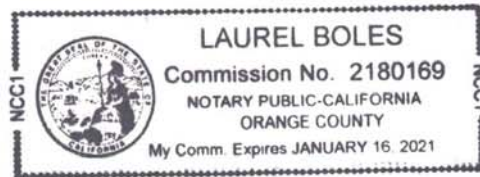
personally appeared Leonard Ambrosini,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is~~ are subscribed to the within instrument and acknowledged to me that ~~he~~ she/they executed the same in ~~his~~ her/their authorized capacity(ies), and that by ~~his~~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

Alberta Statutory Declaration
(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	T100109C/07/EN/14.14

PRESSURE - TEMPERATURE RATINGS

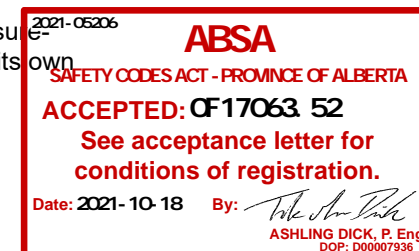
MDMT	MAXIMUM OPERATING CONDITIONS	NOTES
-4°F	13 bar absolute at 20°C / 188 psia (173.3 psig) at 68°F, 1 bar absolute at 120°C / 14 psia (0 psig) at 284°F - See EH TI Document	It is recommended that the sensor be subjected to sterilization at 284°F for only a short time (1 hour approximately)

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.



This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.

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



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