

345 Carlingview Drive Toronto, Ontario M9W 6N9 Tel.: 416.734.3300 Fax: 416.231.1626 Toll Free: 1.877.682.8772

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

Putting Public Safety First

H. Kia



Tel.: +1 416-734-3457 Email: kkia@tssa.org 345 Carlingview Drive Toronto, Ontario M9W 6N9 Tel.: 416.734.3300 Fax: 416.231.1626 Toll Free: 1.877.682.8772

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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			
, LEONARD AMBROSINI, GENERAL MANAGER			
(Name and Position, e.g. President, Plant Manager, Chief Engi	neer)		
of ENDRESS+HAUSER CONDUCTA INC.			
(Name of Manufacturer)			
Located at SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX 1-	714-577-5600		
(Plant Address) (Te	ephone No.)	(Fax No.)	
do solemnly declare that the fittings listed hereunder, which are subject to the <i>Technical Standards and Safety Act</i> , 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, in	tentification marking the fi	tings and service:	
	denuncation marking the ii	uligs and service,	
or are not covered by the provisions of a recognized North American standard and			
as supported by the attached data which iden pressure/temperature ratings and the basis for such ratings, the marking of the fitting			
		were morning	
I further declare that the manufacture of these fittings is controlled by a quality system mee which has been verified by the following authority, SQS	ting the requirements of	150:9001	
	type	fittings. In support of	
this application, the following information and/or test data are attached as follows:	.,,,,,	mango. Il support of	
DRAWINGS, CALCULATIONS, REPORTS, SCOPE OF CRN			
(drawings, calculations, test reports, etc.)			
Declared before me at in the	of		
		1	
theday ofAD 20	Lunglaslas	nent	
Commissioner for Oaths: See a Hacked as	commissioner for Oaths: See attached acknowledgment		
	1		
(Printed name)			
1			
(Signature)	(Signature of Declare	r)	
FOR OFFICE USE ONLY	Technical	D. 11	
To the best of my knowledge and belief, the application meets the requirements of the	Standards	Boilers and Pressure Vessels	
Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and	and Safety	Safety Program	
CSA Standard B51 and is accepted for registration in Category	Authority	2, 1.1.g	
	DECTO	PEDED	
CRN:			
CRN:	REGIST	IEKED	
Registered by:	C.R.N.: 0F17063.5I		
		₹1	

PV 09553 (06/04)

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

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)
name(s)(s)are subscribed to the within he/she/they executed the same in his/h his/her/their signature(s) on the instrum which the person(s) acted, executed the	factory evidence to be the person(s) whose instrument and acknowledged to me that per/their authorized capacity(ies), and that by tent the person(s), or the entity upon behalf of the instrument.
I certify under PENALTY OF PERJURY the foregoing paragraph is true and cor	f under the laws of the State of California that
WITNESS my hand and official seal.	LAUREL BOLES Commission No. 2180169 NOTARY PUBLIC-CALIFORNIA ORANGE COUNTY My Comm. Expires JANUARY 16, 2021
Notary Public Signature ADDITIONAL OPTIONAL INFORMAT	INSTRUCTIONS FOR COMPLETING THIS I
DESCRIPTION OF THE ATTACHED DOCUMENT Technical Standards & Safety Authority	This form complies with current California statutes regarding nota if needed, should be completed and attached to the document. Acknown other states may be completed for documents being sent to that as the wording does not require the California notary to violate Callaw.
(Title or description of attached document)	State and County information must be the State and County when
Registration of Fittings	signer(s) personally appeared before the notary public for acknowl
(Title or description of attached document continued)	 Date of notarization must be the date that the signer(s) personally must also be the same date the acknowledgment is completed.
Number of Pages _1 Document Date_01/29/2020	The notary public must print his or her name as it appears we commission followed by a comma and then your title (notary public Print the name(s) of document signer(s) who personally appear notarization.
CAPACITY CLAIMED BY THE SIGNER	Indicate the correct singular or plural forms by crossing off inco
☑ Individual (s)	he/she/they, is /are) or circling the correct forms. Failure to correct information may lead to rejection of document recording.
☐ Corporate Officer	The notary seal impression must be clear and photographicall
(Title)	Impression must not cover text or lines. If seal impression smud sufficient area permits, otherwise complete a different acknowledge

NG THIS FORM

egarding notary wording and, cument. Acknowledgments ing sent to that state so long to violate California notary

- County where the document c for acknowledgment.
- (s) personally appeared which ompleted.
- it appears within his or her e (notary public).
- onally appear at the time of
- ssing off incorrect forms (i.e. ilure to correctly indicate this
- hotographically reproducible. pression smudges, re-seal if a nt 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.

Trustee(s)

Attorney-in-Fact

☐ Partner(s)

Other

ENDRESS+HAUSER CONDUCTA INC.

4123 LA PALMA AVE. ANAHEIM, CA 92807, USA



THIS IS PART OF CRN

0F17063.5R1

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety

Program

21-Apr-21

Page 1 of 2

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 NP1, 3/4" NP1, G1/2 and 1-1/2" ASME BPE, 1502852 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
		It is recommended that the sensor be subjected
-4°F	(0 psig) at 284°F - See EH TI Document	to sterilization at 284°F for only a short time (1
(0 psig) at 204 F - See En 11 Document		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 \underline{E} in the product code will change to \underline{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.

ENDRESS+HAUSER CONDUCTA INC.

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Endress + Hauser

Page 2 of 2

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.

21-Apr-21



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

9410 - 20 Ave N.W.

Edmonton, Alberta, Canada T6N 0A4

Tel: (780) 437-9100 / Fax: (780) 437-7787

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.

2021-05206 Continued on the next page...



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

2021-05206 Page 2 of 2





STATUTORY DECLARATION Registration of Fittings

L LEONARD AMPROCINI	manufacturer's logo or trademark
I, LEONARD AMBROSINI , GENERAL MANAGER	as it will appear on the fitting.
(name of applicant) (position title) (must be in a position of author of ENDRESS+HAUSER	rrity)
(name of manufacturer)	Endress+Hauser
located at SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX	Elluless+nausel
(plant address)	_
do solemnly declare that the fittings listed hereunder, which are subject to the S (check one)	Safety Codes Act
comply with the requirements of ASME B31.3, ASME B31.1 wt (title of recognized North American Standard)	hich specifies the dimensions,
materials of construction, pressure/temperature ratings and identification	n marking of the fittings, or
are not covered by the provisions of a recognized North American standa	ard 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 c	control program which has been
verified by the following authority, SQS (ISO 9001) as being s	suitable for the manufacture of
these fittings to the stated standard. The fittings covered by this declaration for	which I cook registration are
these fittings to the stated standard. The fittings covered by this declaration, for	which I seek registration, are
these fittings to the stated standard. The fittings covered by this declaration, for CATEGORY F	which I seek registration, are
these fittings to the stated standard. The fittings covered by this declaration, for CATEGORY F (brief description of fittings)	r which I seek registration, are
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CATEGORY F (brief description of fittings) In support of this application, the following information, calculations and/or test of DRAWINGS, CALCULATIONS, REPORTS, SCOPE OF CRN DECLARED before me at	(province or state) acknowledgment acknowledgment cope of CRN Registration and a list of the Safetycopes act - Province of ALL SAFETY CODES ACT - PROVINCE OF ALL

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,
personally appeared Leonard Ambrosin	(Here insert name and title of the officer)
who proved to me on the basis of satisfaname(s)(s)are subscribed to the within it he/she/they executed the same in his/he	actory evidence to be the person(s) whose instrument and acknowledged to me that er/their authorized capacity(ies), and that by ent the person(s), or the entity upon behalf of
	under the laws of the State of California that
the foregoing paragraph is true and con	rect.
WITNESS my hand and official seal.	Commission No. 2180169 NOTARY PUBLIC-CALIFORNIA ORANGE COUNTY My Comm. Expires JANUARY 16, 2021
Notary Public Signature (No	stary Public Seal)
+	DIGERNICATION GROUP CONTRACTOR TO THE FORMA
ADDITIONAL OPTIONAL INFORMATION	ON INSTRUCTIONS FOR COMPLETING THIS FORM This form complies with current California statutes regarding notary wording and,
DESCRIPTION OF THE ATTACHED DOCUMENT	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
Alberta Statutory Declaration (Title or description of attached document)	law.
Registration of Fittings	 State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
(Title or description of attached document continued)	 Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
Number of Pages _1 Document Date _01/29/2020	 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
CAPACITY CLAIMED BY THE SIGNER ☐ Individual (s) ☐ Corporate Officer ☐ (Title) ☐ Partner(s) ☐ Attorney-in-Fact	 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.

www.NotaryClasses.com 800-873-9865

Trustee(s)

Other

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.

acknowledgment is not misused or attached to a different document. Indicate title or type of attached document, number of pages and date.

21-Apr-21

4123 LA PALMA AVE. ANAHEIM, CA 92807, USA



Page 1 of 2

SCOPE OF CRN REGISTRATION

PRODUCT DESCRIPTION

Description (Note 1)	Design Standard	Process Connections	Drawings	EH TI Document
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PRESSURE - TEMPERATURE RATINGS

MDMT	MAXIMUM OPERATING CONDITIONS	NOTES
		It is recommended that the sensor be subjected
-4°F	(0 psig) at 284°F - See EH TI Document	to sterilization at 284°F for only a short time (1
(0 psig) at 204 F - See En 11 Document		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 \underline{E} in the product code will change to \underline{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 of the complete the joint shall have pressure-temperature ratings the same or higher than the product ratings.

ABSA

OWN
SAFETY CODES ACT - PROMNCE OF ALBERTA

ACCEPTED: OF 17063. 52

See acceptance letter for conditions of registration.

Date: 2021-10-18 By: ASHLING DICK, P. En

This stamp and signature have been affixed electronically to this registered design as required by Section 2O(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.

ENDRESS+HAUSER CONDUCTA INC.

4123 LA PALMA AVE. ANAHEIM, CA 92807, USA

Endress + Hauser

Page 2 of 2

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.

21-Apr-21



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 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.



Montréal, 14 octobre 2021.

MADAME CECYLIA GARBACZ TECHNICAL STANDARDS & SAFETY AUTHORITY 345 CARLINGVIEW DRIVE TORONTO ON CANADA M9W 6N9

Fabricant: ENDRESS + HAUSER CONDUCTA INC

4123 EAST LA PALME AVE. S 200 ANAHEIM CA

USA 92807

Numéro de dossier : 948833

Numéro(s) de dessin(s): CONDUMAX CLS15/CLS15D/CLS15E CONDUCTIVITY

SENSORS - ENDRESS + HAUSER CONDUCTA INC

Objet: Enregistrement des plans et devis - Confirmation de l'enregistrement

Bonjour,

Nous vous informons que votre demande d'enregistrement de plans et devis a été traitée et que cette conception a été enregistrée sous le numéro d'enregistrement canadien (NEC\CRN) suivant : **0F17063.56.**

Nous portons votre attention sur certaines exigences réglementaires concernant les installations sous pression, ainsi que des codes et normes qui y sont associés :

- Le fabricant doit maintenir un programme de contrôle de la qualité valide pour fabriquer un équipement selon ce NEC;
- Ce numéro d'enregistrement demeure valide tant et aussi longtemps que les paramètres de conception demeurent inchangés. Dans le cas d'accessoires, l'enregistrement est valide pour une durée de 10 ans à partir de la date d'enregistrement. Les documents de conception doivent alors être resoumis pour validation;
- Le fabricant doit nous transmettre une copie de la Déclaration de conformité du constructeur (Manufacturer's Data Report) pour chaque appareil ou chaudière fabriqué selon ce NEC dans les 30 jours suivant la signature de cette déclaration;
- Le numéro de dessin enregistré et le numéro de révision doivent être indiqués sur la déclaration de conformité pour les équipements fabriqués selon ce NEC.

Le présent avis d'approbation ne dégage pas le fabricant de ses responsabilités quant à la conception ou à la construction des équipements ou d'accessoires fabriqués selon un NEC.

Bureau d'expertise et d'homologation en équipements sous pression

Montréal

545, boul. Crémazie Est, 7ième étage Montréal (Québec) H2M 2V2 Téléphone : 514 873-6459 Sans frais : 1 866 262-2084

www.rbq.gouv.qc.ca



Montréal, le 14 octobre 2021.

MRS. CECYLIA GARBACZ
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ON
CANADA M9W 6N9

Manufacturer: ENDRESS + HAUSER CONDUCTA INC

4123 EAST LA PALME AVE. S 200

ANAHEIM CA USA 92807

OUR REFERENCE: 948833

Design number: CONDUMAX CLS15/CLS15D/CLS15E CONDUCTIVITY

SENSORS - ENDRESS + HAUSER CONDUCTA INC

Subject: Design registration confirmation

Hi,

We wish to inform you that your design registration application has been evaluated and that it was registered under the following Canadian Registration Number (CRN): **0F17063.56.**

The following is a reminder of your obligations regarding certain requirements of the regulation respecting pressure vessels, and the referenced codes and standards:

- The manufacturer must maintain a valid quality control program to manufacture equipment according to the CRN.
- The CRN remains valid as long as there are no changes to the design calculations that might affect the pressure boundary. The design registration of fittings expires 10 years after acceptance. It must, therefore, be resubmitted for validation.
- The manufacturer shall submit a copy of the *Manufacturer's Data Report* to us for each equipment manufactured according to this CRN within 30 days following the signing of this report.
- The drawing number and the revision number registered under this CRN must be indicated on the *Manufacturer's Data Report* for equipment manufactured according to the CRN.

This notice of approval does not relieve the manufacturer of their responsibilities with respect to the design or fabrication of equipment manufactured according to this CRN.

Yours sincerely,

Bureau d'expertise et d'homologation en équipements sous pression

Montréal

www.rbq.gouv.qc.ca



Statutory Declaration Registration of Fittings

(a) Design Qualification	Endress+Hauser 🖽
I1 LEONARD AMBROSI	VI
OFNEDAL MANACEI	(Name of applicant)
GENERAL MANAGE	(Position eg, president, plant manager, chief eng.)
of ENDRESS+HAUSER	CONDUCTA INC.
	(name of company)
Located at SEE ATTAC	HED WORLDWIDE LOCATIONS APPENDIX (plant address)
do solemnly declare that the	ttings listed hereunder, which are subject to the Boilers & Pressure Vessels Act:
comply with all the required: Or	uirements of the ANSI/ASME codes as to their dimensions, material, identification & service for which are
are not covered by the test data.	provisions of the ANSI/ASME codes, and are therefore constructed to comply with e and standard, and are designed to the best current engineering practice, as shown by the supporting
(b) Quality control of N	anufacture
ISO 9001	ure of these fittings is controlled by a quality control program which complies with the requirements of and has been verified by the following authority or authorized agency SQS eclaration, for which I seek registration, are CATEGORY F
In support of the application, DRAWINGS, CALCULATI	ne following information, calculations and/or test data are attached: ONS, REPORTS, SCOPE OF CRN
Declared before me at	See attached acknowledgmen
In the of day of	of
	Fac Official Use Only
and CSA Standard B51.	for Official Use Only for registration in Category in accordance with the Boilers and Pressure Vessels Act validated after ten (10) years from the date of acceptance.
Registered Number CRN _	For the Chief Inspector Date Régie du bâtiment Québec * * Regie du bâtiment Québec * * Regie du bâtiment

Three completed copied of Statutory Declaration form together with three copies of Catalogs, drawings of Bulletins illustrating above fittings shall be submitted.
All fittings are required to be registered in the name of the Manufacturer.

This form shall be completed and signed by the president of highest official in the manufacturing plan where the fitting is produced.

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)
name(s)(s)are subscribed to the within he she/they executed the same in his/he	actory evidence to be the person(s) whose instrument and acknowledged to me that er/their authorized capacity(ies), and that by ent the person(s), or the entity upon behalf of
the foregoing paragraph is true and corwine with the foregoing paragraph is true and c	rect. LAUREL BOLES Commission No. 218016 NOTARY PUBLIC-CALIFORNIA ORANGE COUNTY My Comm. Expires JANUARY 16 2021
ADDITIONAL OPTIONAL INFORMATION DESCRIPTION OF THE ATTACHED DOCUMENT Quebec 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)	INSTRUCTIONS FOR COMPLETING THIS

www.NotaryClasses.com 800-873-9865

☐ Attorney-in-Fact

Trustee(s)

☐ Partner(s)

Other

G THIS FORM

2180169

arding notary wording and, ment. Acknowledgments sent to that state so long violate California notary

- county where the document for acknowledgment.
- personally appeared which pleted.
- appears within his or her notary public).
- ally appear at the time of
- ng off incorrect forms (i.e. ire to correctly indicate this
- tographically reproducible. ssion smudges, re-seal if a 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.

4123 LA PALMA AVE. ANAHEIM, CA 92807, USA



Page 1 of 2

SCOPE OF CRN REGISTRATION

PRODUCT DESCRIPTION

Description (Note 1)	Design Standard	Process Connections	Drawings	EH TI Document
Condumax CLS15 / CLS15D / CLS15E	L B31 1 ASME BPE	1/2" NP1, 3/4" NP1, G1/2 and 1-1/2" ASME BPE, 1502852 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
			It is recommended that the sensor be subjected
	-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	to sterilization at 284°F for only a short time (1
L		(0 psig) at 204 F - 3ee EH TI Document	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 \underline{E} in the product code will change to \underline{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.





4123 LA PALMA AVE. ANAHEIM, CA 92807, USA



Page 2 of 2

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





2202 2nd Avenue Regina, SK S4R 1K3 Canada 1 (866) 530-8599 info@tsask.ca www.tsask.ca

REGISTRATION OF A PRESSURE FITTING DESIGN

14-Oct-21

TSSA 345 Carlingview Drive Toronto, Ontario M9W 6N9

Attention: Cecylia Garbacz File Number: 12244 [0 F]

Re: Manufacturer: Endress+Hauser Conducta Inc.

Item: Condumax CLS15 / CLS15D / CLS15E Sensors

Catalog or Drawing: Per Scope of Registration (21-Apr-21) & Design Report R-1117C Rev. 0

TSASK Codes and Standards Compliance has registered the design listed above in accordance with The Boiler and Pressure Vessel Act and Regulations and CSA B51. The Canadian Registration Number (CRN) is:

OF17063.53 Expiry Date: August 10, 2031

Please note that every fitting shall be constructed in strict accordance with the registered design.

Fitting registrations are required to be resubmitted for validation after ten (10) years from the registration date in accordance with CSA B51, Clause 4.2.1.

Should you require anything further, please do not hesitate to contact the Codes and Standards Compliance Office at your convenience.

Yours truly,

Athan Syrgiannis, P.Eng.

Codes and Standards Compliance

Remarks:

A valid quality control program must be maintained at the production facilities for the fitting registration to remain valid until the expiry date.

CRN renewal, not previously registered in Saskatchewan.

See Worldwide Locations Appendix (rev. June 17, 2020) for list of manufacturing locations.



2202 2nd Ave.

Regina, SK S4R 1K3 PH: (306)798-7112 Toll Free: (866)530-8599 FAX: (306)787-9273 Toll Free: (866)760-9255

Email: boilerpermits@tsask.ca Website: www.tsask.ca

Statutory Declaration (Registration of Fittings)

TOV 4000

		15K-1008
I. Declaration Inform	nation	
I, LEONARD AMBROSIN	NI .	In this space, show facsimile of
GENERAL MANAGER		manufacturer's logo or trademark as it will appear on the fitting.
(company titl	le, e.g. vice president, plant manager, chief engineer) authority in the manufacturing plant where the fitting is produced)	
of: ENDRESS+HAUSER	2 S 4 - 1 THE F. L. O. B. H. COLLEGE SECTION S	Endress+Hauser 🖼
OI. ENDICED TIMODERY	(name of manufacturer)	
rooutou ut.	CHED WORLDWIDE LOCATIONS APPENDIX	
	ss – Apt/Street) (City,Prov) the fittings listed hereinunder, which are subject to t k one)	(Postal Code) the Saskatchewan Boiler and Pressure
	quirements of ASME B31.1, B31.3 (title of recognized North American Standard) uction, pressure / temperature ratings and identifica	
to comply with	the provisions of a recognized North American stars the dimensions, materials of construction, pressured the marking of the fittings for identification.	as supported by the attached
verified by the following au	nanufacturer of these fittings is controlled by a qual uthority, ISO 9001 SQS ed standard. The fittings covered by this declaration	as being suitable for the manufacturer
	on, the following information, calculations and / or t LATIONS, REPORTS, SCOPE OF CRN	test data are attached:
II. Declaration		
DECLARED before me at this day of print name)	(Signature)	of
/		tached acknowledgment
(Signature of Commissioner of C	Oaths)	3
III. Office Use Only		
CSA B51, Clause 4.2, and is	and belief, the application meets the requirements of the accepted for registration in Category	e Boiler and Pressure Vessel Safety Act and
of Saskat	Authority (Date Registered – MM DD Y tchewan (For the Administrator / Chief	
Registration No. OF17063.53 File No. 12244 Registered Date: October 14, 20 Expiry Date: August 10, 20 Codes & Standards Complia	021031	TSK-1008 Rev. 10/2012 Page 1 of 1

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 Ambrosin	i,
who proved to me on the basis of satisfarame(s)(s)are subscribed to the within it he)she/they executed the same in his/he	actory evidence to be the person(s) whose instrument and acknowledged to me that er/their authorized capacity(ies), and that by ent the person(s), or the entity upon behalf of
I certify under PENALTY OF PERJURY the foregoing paragraph is true and corr	under the laws of the State of California that
WITNESS my hand and official seal.	LAUREL BOLES Commission No. 2180169 NOTARY PUBLIC-CALIFORNIA ORANGE COUNTY My Comm Expires JANUARY 16, 2021
Notary Public Signature (No	otary Public Seal)
ADDITIONAL OPTIONAL INFORMATION OF THE ATTACHED DOCUMENT TSA of Saskatchewa	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.
(Title or description of attached document) Registration of Fittings	 State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
(Title or description of attached document continued) Number of Pages _1 Document Date_01/29/2020	 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
CAPACITY CLAIMED BY THE SIGNER ☑ Individual (s) ☐ Corporate Officer	 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.

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Trustee(s)

□ Partner(s)

Other

(Title)

Attorney-in-Fact

raphically 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.

ENDRESS+HAUSER CONDUCTA INC.

4123 LA PALMA AVE. ANAHEIM, CA 92807, USA



Technical
Safety Authority
of Saskatchevvan

Registration No. OF17063.53

File No. 12244

Registered

Date: October 14, 2021

Expiry Date: August 10, 2031

Codes & Standards Compliance Office

21-Apr-21

Page 1 of 2

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

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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.

4123 LA PALMA AVE. ANAHEIM. CA 92807, USA

Endress + Hauser

Page 2 of 2

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 Hastellov 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

	TechnicalSafety Authorityof Saskatchewan	
Registration No	OF17063.53	
File No	12244	
	Registered	
Date:	October 14, 2021	
Expiry Date:	August 10, 2031	
Codes	& Standards Compliance Office	

New Brunswick Nunavut	Nova Scotia Yukon	Prince Edward Islan Northwest Territories	
Manufacturers Na	Me: ENDRESS+HAUSER CON	DUCTA INC.	
Manufacturers Add	Tess: SEE ATTACHED WORL	DWIDE LOCATIONS APPENDIX	
	E ATTACHED WORLDWIDE LO		
A Pipe fittings, including B Flanges: all flanges	ng couplings, tees, elbows, Y	tered. Circle one Category of s, plugs, unions, pipe caps, or red	niy Title of the Standard of Construction
C Valves; all line valve	s xible connections, and hose	accombiles: off hines	ASME B31.3
E Strainers, filters, sep	arators, and steam traps		ASME B31.1
F Measuring devices, in transmitters	ncluding pressure gauges, le	evel gauges, sight glasses, levels,	or pressure
G Certified capacity-rate	ed pressure relief devices ac	cceptable as primary over pressure	e protection on
H Pressure retaining or	sels, piping and fusible plug emponents that do not fall in	s to one of the above categories	
N Nuclear components	: Class 1 🗆 Class 2 🗆 C	lass 3 🗆 , (Meeting CNSC or ASN	//E requirements)
Show Manufacturer	s Name, Trademark, or	Logo as it will appear on the	
E	ndress+l	Hauser 🖾	Forged M Welded a Wrought M Cast a Other M Describe other:
			riasiic
		tification of the actual items	
- DRAWINGS, C	CALCULATIONS, F	REPORTS, SCOPE OF	FCRN
and responsibility for th my knowledge represer ratings, and identification fittings is regulated by a verified by 808 (80 800)	e quality of the end produ nts the product for which on markings are in accord u Quality Control Program as	registration is sought. The din dance with the herein named s n which extends to each plant is being suitable for that purpos	e information contained in this form is true to the best of nensions, materials of construction, pressure temperature tandards. I further declare that the manufacture of these where fabrication occurs in whole or in part and has been a and I make this solemn declaration conscientiously.
	nd knowing that it is of th	e same force and effect as if r	
Signature of Declarer: _	, 7/		see attached acknowledgmen
Declared before me at			Use this scace for the Official Seal
This day of Commissioner of Oaths			Ose me soste of the Chicial Resi
Or Notary Public: (sign)			
or rectary replie. (aigh)	(Affix Official seal to the	e right)	
		This space for Regulatory Author	rity use.
0547062 5	This registration mus	t be revalidated after ten (10) year	rs from the date of acceptance.
CRN: 0F17063.5	Kevi		ACCEPTED
FID#: 14878		PROV	VINCE OF PRINCE EDWARD ISLAND
Notes Revision is CR	V renewal. Conduma:	x CLS15/ COM	munities, Land & Environment
	stered in the name or the Manu supported with two Statutory D	P 10 1	V. OF17063.59 Rev)
and one copy of support 3. The Declaration shall b	rting documentation. e made by the person having fu	DATI	1. Oct 8 3031
	ality of the end product.	alla.	Junto 1cColor
and the second s	ns shall be resubmitted for validates connections.	10	NSTESTION SERVICES SECTION. 0 - Fittings Rev. 2
	ires Aug 10th 2031 -	DG BO	LER7PRESSURE VESSEL BRANCH

New Brunswick Nunavut	Nova Scotia Yukon	Prince Edward Island Northwest Territories	Newfoundland and Labrador
Manufacturers Nan	ng: Endres9+Hauser Con	DUCTA INC.	
Menufacturers Add	1868; SEE ATTACHED WORL	DWIDE LOCATIONS APPENDIX	
Plant Locations: 82	ATTACHED WORLDWIDE LOC	CATIONS APPENDIX	
B Flunges: all flunges C Valves: all fine valves D Expansion joints, flex E Strainers, fitters, seon	g couplings, lees, elbows, y a dbin connections, and hose MIXOTS, and steam trans		Title of the Standard of Construction ASME B31.3 ASME B31.1
G Certified capacity-rate bollers, pressure year	id pressure relief devices ac	evel gauges, sight glasses, levels, or pressure cceptable as primary over pressure protection s to one of the above categories	
N Nuclear components:	Class 1 Class 2 C	tass 3 🗆 , (Meeting CNSC or ASME requirem	morns)
Snow Manufacturers	ndress+	Hauser (31)	Type of Construction Forged # Welded Wrought # Cast Other # Describe other: Plastic
List of supporting de	ocumentation and iden	tification of the actual items to be regi	stered:
ratings, and identification ittings is regulated by a verified by source sear)	n markings are in accord Quality Control Program as and knowing the it is of th	dence with the herein named standards, in which extends to each plant where fabris being suitable for that purpose and I make same force and effect as if made under	and being the person having full authority on contained in this form is true to the best of materials of construction, pressure temperature I further declare that the manufacture of these ication occurs in whole or in part and has been the this sciemn declaration conscientiously roath. Attached acknowledges
Or Notary Public: (sign)			
	(Affix Official seal to the	right)	
	This exclusion	This space for Regulatory Authority use.	
CRN: 0F17063.5	Rev1	I be revalidated after len (10) years from the	electi esperance.
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	renewal. Conduma E(CLS15E is new)	CLS15/	ct.8/31
2. Each Category shall be	supported with two Statutory D		described
and one copy of support 3. The Declaration shall be responsibility for the que	made by the person having ful	Il suthority and	nre Perry
Addition of proce	s shall be resubmitted for valida 955 CORNECTIONS. iros Aug 10th 2031	ndon.	Part EGULATIONS Sect 1.0 - Fittings Rev.2

New Brunswick Prince Edward Island Nova Scotia Newfoundland and Labrador Nunavut Yukon Northwest Territories Manufacturers Name: ENDRESS+HAUSER CONDUCTA INC Manufacturers Address: SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX Plant Locations: SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX Category of Fittings to be registered. Circle one Category only Title of the Standard of A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers Construction B Flanges: all flanges C Valves: all line valves **ASME B31.3** D Expansion joints, flexible connections, and hose assemblies: all types **ASME B31.1** E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 □ Class 2 □ Class 3 □ , (Meeting CNSC or ASME requirements) Show Manufacturers Name, Trademark, or Logo as it will appear on the product Type of Construction Welded D Wrought Forged Cast a Other # Endress + Hauser Describe other: Plastic List of supporting documentation and identification of the actual items to be registered: DRAWINGS, CALCULATIONS, REPORTS, SCOPE OF CRN Declaration: (see note 3) employed by ENDRESS+HAUSER LEONARD AMBROSINI, GENERAL MANAGER and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by sos (150 9001) as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath. Signature of Declarer: Declared before me at Use Wis New Sa Nouveau is Seal Commissioner of Oaths **DEPT OF JUSTICE PUBLIC SAFETY** Or Notary Public: (sign) **BOILER & PRESSURE VESSEL ACT** (Affix Official seal to the right) This space for Regulatory Authority use. REGISTRATION ONLY This registration must be revalidated after ten (10) years from the da CRN: 0F17063.5 Rev1 14878 FID#: Notes: Revision is CRN renewal. Condumax CLS15/ CLS15D/CLS15E (CLS15E is new) (cont'd below) All Fittings shall be registered in the name of the Manufacturer. Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. The Declaration shall be made by the person having full authority and responsibility for the quality of the end product. BLRs ☐ PVs Quality Control programs shall be resubmitted for validation. Sect 1.0 - Fittings Rev.2 Addition of process connections. FITTINGS | NUCLEAR COMPONENTS 11/2016 CRN expires Aug. 10th, 2031 - DG

New Brunswick	Nova Scotia	Prince Edward Island	Newfoundland and Labrador
Nunevut	Yukon	Northwest Territories	
	TIO: ENDRESS+HAUSER CON		
		DWIDE LOCATIONS APPENDIX	
	E ATTACHED WORLDWIDE LO		
A Pipe fittings, Includin	y of Fittings to be regis ig couplings, tees, elbows. Y	tered. Circle one Category only 's, plugs, unions, pipe caps, or reducers	Title of the Standard of Construction
B Flenges: all flanges C Valves: all line valve:	۵		
D Expansion joints, flex	dble connections, and hose	assemblies: all types	ASME B31.3
E Strainers, filters, sepi	arators, and steam traps		ASME B31.1
r measuring devices, is transmitters	ncluding pressure gauges, I	evel gauges, sight glasses, levels, or pressure	e
G Certified capacity-rate	ed pressure relief devices ac	oceptable as primary over pressure protection	non
boilers, pressure vess H. Pressure retaining co	sels, piping and fusible plug	s to one of the above categories	
		lass 3 , (Meeting CNSC or ASME requirer	
Show Manufacturer	s Name, Trademark, or	Logo as it will appear on the product	Type of Construction
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Č	101255+1	لنك Hauser	Describe other:
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		REPORTS, SCOPE OF CRN	
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gnature of Declarer: _ sclared before me at _		Ser Ser	attached acknowledgmen
nisday			this source for the Official Real
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Notary Public: (sign)	/		
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CRN: 0F17063.5	Kev1		Newfound Labrador
1D#: 14878			Service NL A
Desiring in CO	N renewal. Conduma	x CI S15/	25 10.13 51
	SE CLS 15E S Rewin		0.1. 1.12
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and one copy of suppo- The Decisration shall b		sili zudkorin, sani	Registered by
and the second second second	se made by the person having fi selfty of the end product.	on annowly and	
Quality Control program	ns shall be resubmitted for valid	dation.	UNDER THE AUTHORITY OF THE PUBLIC SAFETY AOT AND
	ess connections.	20	THE BOILER, PRESSURE VESSEL AND
11/2016 CRN exp	pires Aug.10th, 2031	- DG	COMPRESSED GAS REGULATIONS

New Brunswick Nunavut Nova Scotia Yukon Prince Edward Island Northwest Territories

Newfoundland and Labrador

Manufacturers Name; ENDRESS+HAUSER CONDUCTA INC.  Manufacturers Address: SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX				
MIGRUIACIUMES ACCINESS' SEE ATTACHED WORLDWIDE LOCATIONS ADDENDIN				
Plant Locations: SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX				
Category of Fittings to be registered. Circle one Category only	Title of the Standard			
A Pipe fittings, Including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers  B Flanges: all flanges	Title of the Standard of Construction			
C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types	ASME B31.3			
E Strainers, filters, separators, and steam traps	ASME B31.1			
F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure				
transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on				
boilers, pressure vessels, piping and fusible plugs  H Pressure retaining components that do not fall into one of the above categories				
N Nuclear components: Class 1 ☐ Class 2 ☐ Class 3 ☐ , (Meeting CNSC or ASME requirements)				
Show Manufacturers Name, Trademark, or Logo as it will appear on the product	Type of Construction			
	Forged # Welded # Wrought # Cast # Other #			
Endress+Hauser	Describe other:			
LIIUICSSTIAUSCI LIII	Plastic			
Liet of aumorating decrease whether and life at the state of the state				
List of supporting documentation and identification of the actual items to be registered	ii e			
- DRAWINGS, CALCULATIONS, REPORTS, SCOPE OF CRN				
Declaration: LEONARD AMBROSINI, GENERAL MANAGER (see note 3) employed by ENDRESS+HAUSER and	being the person having full authority			
and responsibility for the quality of the end product do solemnly declare that the information comy knowledge represents the product for which registration is sought. The dimensions, materiatings, and identification markings are in accordance with the herein named standards. I furth ittings is regulated by a Quality Control Program which extends to each plant where fabrication rerified by \$00 (50 \$001)  as being suitable for that purpose and I make this pelieving it to be true, and knowing that it is of the same force and effect as if made under oath	als of construction, pressure temperature er declare that the manufacture of these a occurs in whole or in part and has been a scientific declaration conscientionally.			
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Commissioner of Oaths Or Notary Public: (sign)  (Affix Official seal to the right)  This space for Regulatory Authority use.	ached acknowledgment			
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CRN: OF17063.5 Rev1  This registration must be revalidated after ten (10) years from the date of the control of	ached acknowledgment			
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New Brunswick Nunavut	Nova Scotia Yukon	Prince Edward Island Northwest Territories	Newfoundland and Labrador
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	fress; see attached worldwit		
Plant Locations: 8E	E ATTACHED WORLDWIDE LOCATIO	ONS APPENDIX	
A Pipe fittings, including Flanges; all flanges	y of Fittings to be registere g couplings, tees, elbows, Ys, pi	d. Circle one Category only ugs, unions, pipe cape, or reducers	Title of the Standard of Construction
C Valves; all line valves	1		ASME B31.3
D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure			ASME B31 1
transmitters		gauges, sight glasses, levels, or pressure able as primary over pressure protection	1
Dollers, pressure year	iels, piping and fusible plugs imponents that do not fall into on		l on
N Nuclear components:	Class 1 Class 2 Class	3 . (Meeting CNSC or ASME requirem	nents)
Show Manufacturer	Name, Trademark, or Log	c as it will appear on the product	Type of Construction
E	ndress+Ha	ucor (Fil	Forged # Welded a Wrought # Cast a Other # Describe other:
L	1101 C33 T 110	ושכנו ושכנוג	Plastic
List of supporting de	ocumentation and Identifica	ition of the actual items to be req	
- DRAWINGS, C	ALCUI ATIONS REP	PORTS, SCOPE OF CRN	
sylumed a present stings, and identification things is regulated by a srified by season sent elieving it to be true, an	n markings are in accordance  Quality Control Program whi  as bein	tracon is sought. The dimensions, is with the herein named standards, ch extends to each plant where fabring suitable for that purpose and I make force and effect as if made under the content of the co	
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his day o			) ਪ੍ਰਭੂਗ (ਨਾ ਸ਼ੀਨ (ਅੰਗ੍ਰਿਜ਼ ਮੁਵਤ)
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CRN: 0F17063.5	This registration must be n	evalidated after ten (10) years from the d	late of occeptants
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<ul> <li>Quality Control programs</li> <li>Addition of proce</li> </ul>	shall be resubmitted for validation.		NED Profice Rev. 2
	res Aug. 10th, 2031 - DG	DAT	F Och 12 202

**New Brunswick Nova Scotia** Prince Edward Island Newfoundland and Labrador Nunavut Yukon Northwest Territories Manufacturers Name: ENDRESS-HAUSER CONDUCTAINC. Manufacturers Address: SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX Plant Locations: SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX <u>Category of Fittings to be registered. Circle one Category only</u>

A Pipe fittings, including couplings, tess, elbows, Ye, plugs, unions, pipe cape, or reducers Title of the Standard of Construction B Flanges: all flanges C Valves: all line valv **ASME B31.3** D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps **ASME B31.1** F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmit G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs.

H Pressure retaining components that do not fall into one of the above categories. N Nuclear components: Class 1 Class 2 Class 3 , (Mosting CNSC or ASME requirements)

Show Manufacturers Name, Trademark, or Logo as it will appear on the product Forged 8 Weided a Wrought 8 Cast a O Other & Endress+Hauser Plastic ist of supporting documentation and identification of the actual items to be registered: - DRAWINGS, CALCULATIONS, REPORTS, SCOPE OF CRN Declaration: | LEDNARD ANIMOSINI, GENERAL MANAGER (see note 3) employed by ENDRESS+HAUSER and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by see (see anen) as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath. Signature of Declarer: ser attached acknowledgment Declared before me at / i isa this space for the Official Seal Commissioner of Oaths Or Notary Public: (sign) (Affix Official seal to the right) This space for Regulatory Just This registration must be revalidated after ten (10 CRN: 0F17063.5 Rev1 Boilers and 14878 Pressure Vessels Act Notes Revision is CRN renewal. Condumax CLS15/ CLS15D/CLS15E (CLS15E is new), (cont'd below) REGISTERED Each Category shall be supported with two Statutory Declaration forms 2 CRN_OF 17063.5N Rev 1 and one copy of supporting documentation. The Declaration shall be made by the person having full authority and October 08 ,2021 Date . responsibility for the quality of the end product. Quality Control programs shall be resubmitted for validation. Signed Addition of process connections.

112016 CRN expires Aug.10th, 2031 - DG Chief/Inspector Territorial Registration Fee



Suite 600 - 2889 E 12th Ave Vancouver, BC V5M 4T5

Toll Free: 1-866-566-7233 www.technicalsafetybc.ca

TECHNICAL STANDARDS & SAFETY AUTHORITY 345 CARLINGVIEW DRIVE TORONTO ON M9W 6N9

Date: November 24, 2021

Account #: 35231 Journal #: 79095

Attn: TSSA

Re: **Application for Design Registration** 

The design, as detailed in your, 0F17063.5R1 - ENDRESS + HAUSER CONDUCTA, for a Fitting is accepted for registration as follows:

Registered To: ENDRESS+HAUSER CONDUCTA CRN: 0F17063.51

**Drawing #:** Scope of Registration **Drawing Revision: N/A** 

This design was registered based on a technical review performed by the province of initial registration in accordance with the Association of Chief Inspectors policy on reciprocal recognition of design review.

## **Reviewer's Notes:**

Scope: REF#R-1117C - CONDUMAX CLS15/CLS15D/CLS15E CONDUCTIVITY SENSORS

As required by CSA B51 4.2.1, this registration expires on 10-Aug-2031. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program lapse before the expiry date, this registration shall become void. Any additional conditions of registration stated in TSSA CRN# 0F17063.5R1 registration shall apply to BC registration.

(PROD) 30400-20 GST #: 87391 2802 RT0001



Toll Free: 1-866-566-7233 www.technicalsafetybc.ca

Contact me if you have any questions. The invoice for registration will be forwarded under separate cover.

Emilia Tam

emilia.tam@technicalsafetybc.ca Design Administration

cc:

(PROD) 30400-20 GST #: 87391 2802 RT0001



Inspection and Technical Services
Municipal Relations
508-401York Ave
Winnipeg, Manitoba Canada R3C 0P8
T 204-945-3373 F 204-948-2089
www.fireccomm.gov.mb.ca/itsm_main

20 October 2021

TSSA 345 Carlingview Drive Toronto, ON M9W 6N9

Dear Cecylia Garbacz

# Re: Reciprocal CRN Registration in Manitoba

Your application indicates that a CRN has been received in another Canadian Jurisdiction, and therefore your CRN has been registered in Manitoba as follows:

File Number: 74-R1857 CRN: 0F17063.54

Scope: SOR: CLS15, CLS15D AND CLS15E Conductivity Sensors Sheets 1-2; List of

worldwide locations

Manufacturer: Endress+Hauser Conducta Inc.

Expiry Date: 10 August 2031

Please find attached invoice for registration.

As indicated by the Regulatory Reconciliation and Cooperation Table and the Reconciliation Agreement for the Canadian Registration Number (CRN) for Pressure Equipment, a CRN issued in any Canadian Jurisdiction will be accepted for use in Manitoba.

In accordance with Steam and Pressure Plants Regulation and CSA B51, it is the manufacturer's responsibility to file a Manufacturers Data Report, including partial data reports, with our office, prior to shipping pressure equipment to Manitoba.

Please contact <a href="mailto:qasupport@gov.mb.ca">qasupport@gov.mb.ca</a> for any questions or concerns.

Inspection and Technical Services Municipal Relations 508 - 401 York Avenue, Winnipeg Manitoba R3C 0P8 T (204) 945-3373 | F (204) 948-2089