

July 18, 2021

**Attention:** Tanya Francis  
TECHNICAL STANDARDS & SAFETY AUTHORITY  
345 CARLINGVIEW DRIVE  
TORONTO, ON M9W 6N9

The design submission, tracking number 2021-03737, originally received on July 08, 2021 was surveyed and accepted for registration as follows:

**CRN :** 0F17064.52 **Accepted on:** July 18, 2021  
**Reg Type:** RENEWAL **Expiry Date:** April 08, 2031  
**Drawing No. :** SCOPE OF CRN REGISTRATION  
**Fitting type:** CONDUMAX CLS21/CLS21D/CLS21E  
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 Registration include renewal, and addition of Condumax CLS21E*
- \*\* *Design Report #: R-1117D Rev 0*
- \*\* *See attached Worldwide Locations Appendix for a list of manufacturing locations*

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

- *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

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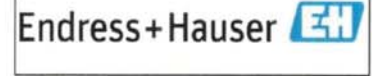
July 18, 2021

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.

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)  
(sign) \_\_\_\_\_  
(a Commissioner of Oaths or Notary Public)

See attached acknowledgment

\_\_\_\_\_  
(signature of applicant)

**For ABSA Office Use Only:**

NOTES: **\*\* Condumax CLS21/CLS21D/CLS21E Conductivity Sensors. See attached scope of CRN Registration.**

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/SGP)

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 \_\_\_\_\_

2021-03737  
ABSA

SAFETY CODES ACT - PROVINCE OF ALBERTA

ACCEPTED: **CF17064.52**

See acceptance letter for conditions of registration.

Date: **2021-07-18** By: *Ashling Dick*  
ASHLING 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 }

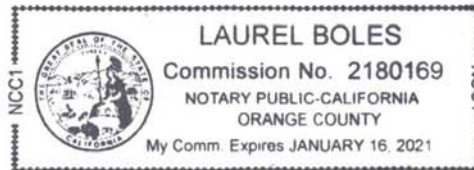
On 01/29/2020 before me, Laurel Boles,  
(Here insert name and title of the officer)

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 CLS21 / CLS21D / CLS21E	ASME B31.3, ASME B31.1, ASME BPE, ASME VIII-1 UG-101	1" NPT, G1 and 2" ASME BPE, ISO2852 Clamp Ferrule (Note 2)	427148-B, 418507-A, 418511-A, 416395-B	TI00085C/07/EN/15.18

**PRESSURE - TEMPERATURE RATINGS**

MDMT	MAWP AT 68°F	MAWP AT 275°F	NOTES
-4°F	246 psia	51 psia	None

**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), Graphite, Titanium 3.7035	Optional process connection materials may be used. See Note 3.

**Note 1)** This CRN Registration covers the CLS21, CLS21D and CLS21E 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 the same CRN and shall have pressure-temperature ratings the same or higher than the product ratings.

2021-03737

**ABSA**

**SAFETY CODES ACT - PROVINCE OF ALBERTA**

**ACCEPTED: OF17064.52**

**See acceptance letter for conditions of registration.**

Date: 2021-07-18 By:

ASHLING 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

**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**