

**REGISTRATION OF A PRESSURE FITTING DESIGN**

17-Dec-20

TSSA  
345 Carlingview Drive  
Toronto, Ontario  
M9W 6N9**Attention: Tanya Francis****File Number: 11834 [ 0 F]****Re: Manufacturer: Endress + Hauser Conducta GmbH & Co. KG**  
**Item: Memosens CLS82D/CLS82E Conductivity Sensors**  
**Catalog or Drawing: Per Scope of Registration (21-Aug-20) & Design Report R-1117B 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:

**OF22800.53      Expiry Date: November 4, 2030**

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.

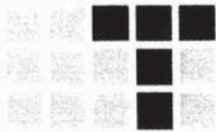
Should you require anything further, please do not hesitate to contact the Codes and Standards Compliance Office at your convenience.

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.

See Worldwide Locations Appendix - Page 1 of 1 for manufacturing locations.



# Technical Safety Authority of Saskatchewan

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](mailto:boilerpermits@tsask.ca)  
Website: [www.tsask.ca](http://www.tsask.ca)

## Statutory Declaration (Registration of Fittings)

TSK-1008

### I. Declaration Information

I, LEONARD AMBROSINI  
GENERAL MANAGER  
(company title, e.g. vice president, plant manager, chief engineer)  
(must be in a position of authority in the manufacturing plant where the fitting is produced)  
of: ENDRESS+HAUSER CONDUCTA INC.  
(name of manufacturer)

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

Endress+Hauser

located at: SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX  
(Plant Address - Apt/Street) (City, Prov) (Postal Code)

do solemnly declare that the fittings listed hereinunder, which are subject to the **Saskatchewan Boiler and Pressure Vessel Safety Act** (check one)

- ☒ Comply with the requirements of ASME B31.1, B31.3 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 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 manufacturer of these fittings is controlled by a quality control program which has been verified by the following authority, ISO 9001 SQS as being suitable for the manufacturer of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are CATEGORY F

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

**DRAWINGS, CALCULATIONS, REPORTS, SCOPE OF CRN**

### II. Declaration

DECLARED before me at \_\_\_\_\_ In the \_\_\_\_\_ of \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_  
(print name) (Signature)  
(Signature of Commissioner of Oaths) See attached Acknowledgment

### III. Office Use Only

To the best of my knowledge and belief, the application meets the requirements of the **Boiler and Pressure Vessel Safety Act** and CSA B51, Clause 4.2, and is accepted for registration in Category \_\_\_\_\_



Technical  
Safety Authority  
of Saskatchewan

Registration No. OF22800.53  
File No. 11834  
Registered  
Date: December 17, 2020  
Expiry Date: November 4, 2030

Codes & Standards Compliance Office

(Date Registered - MM DD YYYY)  
(For the Administrator / Chief Inspector)

(Expiry Date - MM DD YYYY)

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)

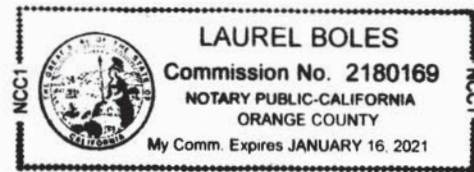
personally appeared Leonard Ambrosini,  
who proved to me on the basis of satisfactory evidence to be the person(s) whose  
name(s) is are subscribed to the within instrument and acknowledged to me that  
he she/they executed the same in his her/their authorized capacity(ies), and that by  
his her/their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

TSA of Saskatchewan

(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.



**Statutory Declaration (Registration of Fittings)**

**TSK-1008**

**I. Declaration Information**

I, LEONARD AMBROSINI,  
GENERAL MANAGER  
(company title, e.g. vice president, plant manager, chief engineer)  
(must be in a position of authority in the manufacturing plant where the fitting is produced)  
of: ENDRESS+HAUSER CONDUCTA INC.  
(name of manufacturer)

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

**Endress+Hauser** 

located at: SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX  
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In support of this application, the following information, calculations and / or test data are attached:

**DRAWINGS, CALCULATIONS, REPORTS, SCOPE OF CRN**

**II. Declaration**

DECLARED before me at \_\_\_\_\_ In the \_\_\_\_\_ of \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_  
(print name) \_\_\_\_\_  
(Signature of Commissioner of Oaths) \_\_\_\_\_  
(Signature) \_\_\_\_\_  
*See attached acknowledgment*

**III. Office Use Only**

To the best of my knowledge and belief, the application meets the requirements of the **Boiler and Pressure Vessel Safety Act** and CSA B51, Clause 4.2, and is accepted for registration in Category \_\_\_\_\_



**Technical  
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(Date Registered – MM DD YYYY)  
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County of Orange }

On 01/29/2020 before me, Laurel Boles,  
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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.

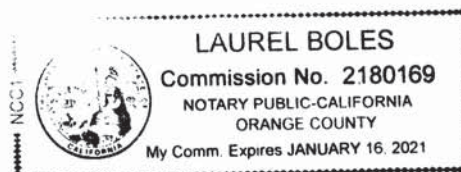
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Laurel Boles

Notary Public Signature

(Notary Public Seal)



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- Securely attach this document to the signed document with a staple.

**ENDRESS+HAUSER CONDUCTA INC.**

4123 LA PALMA AVE.

ANAHEIM, CA

92807, USA

# Endress+Hauser



 <b>Technical Safety Authority of Saskatchewan</b>	
Registration No.	OF22800.53
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**21-Aug-20**

Page 1 of 2

**SCOPE OF CRN REGISTRATION****PRODUCT DESCRIPTION**

Description (Note 1)	Design Standard	End Connections	Drawings	EH TI Document
Memosens CLS82D / CLS82E	ASME B31.3, ASME B31.1, ASME BPE, ASME VIII-1 UG-101	1" NPT, G1", PG13.5, 1-1/2" and 2" ASME BPE, ISO2852, DIN 32676 Clamp Ferrule ( <b>Note 2</b> ), Varivent DN25 and DN40 ( <b>Note 2</b> ), NEUMO BioControl DN25, DN25 Standard, DN25 B. Braun port.	427197-B, 133951-G, 403150-M, 403159-N, 403163-M, 403164-L, 403167-L, 403168-M, 403170-M, 403171-M, 403172-M	TI01188C/07/EN/04.17

**PRESSURE - TEMPERATURE RATINGS**

MDMT	MAWP AT 68°F	MAWP AT 248°F	MAWP AT 284°F	NOTES
23°F	247 psia	131 psia	87 psia	It is recommended that the sensor be subjected to sterilization at 284°F for only a short time (45 minutes approximately)

**MATERIALS OF CONSTRUCTION**

PROCESS CONNECTION MATERIAL (NOTE 3,4)	SENSOR MATERIAL	NOTES
ASTM A479-316L, STAINLESS STEEL 1.4435 TYPE 316L, UNS S31603	POLYPHENYLENE SULFIDE PLASTIC, ASTM A479-316L, STAINLESS STEEL 1.4435 TYPE 316L, UNS S31603, PLATINUM AND CERAMIC.	Optional process connection materials may be used. See Note 3.

**Note 1)** This CRN Registration covers the CLS82D and CLS82E 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 and Varivent 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.**

4123 LA PALMA AVE.  
ANAHEIM, CA  
92807, USA

**21-Aug-20**

Page 1 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: Type 304 S.Steel UNS S30400, Type 304L S.Steel UNS S30403, Type 316 S.Steel UNS S31600, Type 316L S.Steel UNS S31603, Alloy 20 UNS N08020, Hastelloy C-276 UNS N10276, Hastelloy C22 UNS N06022, Hastelloy B3 UNS N10676, Monel 400 UNS N04400 (Note Monel 400 limited to 100F max.), Inconel 600 UNS N06600, Inconel 625 UNS N06625, Inconel 825 UNS N08825, Duplex S.Steel UNS S31803, Super Duplex UNS S32750, Super Duplex UNS S32760, Titanium Grade 3 UNS R50550 (Note Titanium limited to 247°F max. for ASME B31.3 Service and 173°F max. for ASME B31.1 Service.)

**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.

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**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 JiangTianLu  
Suzhou Industrial Park 215126  
People's Republic of China  
**ISO 9001 Certified by SQS**

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