



345 Carlingview Drive
Toronto, Ontario M9W 6N9
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www.tssa.org

November 04, 2020

SCOTT ISLIP
ROUND ENGINEERING INC
10 SEGWUN RD
WATERDOWN ON L8B 0K6
CA

Service Request Type: BPV-Fitting Registration
Service Request No.: 2950876
Your Reference No.: R-1117B
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 No.: 0F22800.5
Main Design No.: Memosens CLS82D/CLS82E Hygienic Conductivity Sensors Per Scope Of Registration

Expiry Date: 04-Nov-2030

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

A stamped copy of the approved registration and invoice for engineering services will be sent to you shortly. Should you have any questions or require further assistance, however, 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,

Zivko Gacevic P. Eng.
Mechanical Engineer, BPV
Tel.: 416-734-3429
Fax: 416-231-6183
Email: zgacevic@tssa.org



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

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

Endress+Hauser

STATUTORY DECLARATION
Registration of Fittings

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

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

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

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

(Title of recognized North American Standard)

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

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

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

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

(drawings, calculations, test reports, etc.)

Declared before me at _____ in the _____ of _____
 the _____ day of _____ AD 20____. *See attached acknowledgment*

Commissioner for Oaths:

(Printed name)

(Signature)

(Signature of Declarer)

FOR OFFICE USE ONLY

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

CRN: _____

Registered by: _____

Dated: _____

NOTE: This registration expires on Nov. 4, 2030

Technical Standards and Safety Authority
 Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0F22800.5

Signed: *Lucy...*

Date: November 4, 2020.

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 }

THIS IS PART OF CRN
0F22800.5

Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program

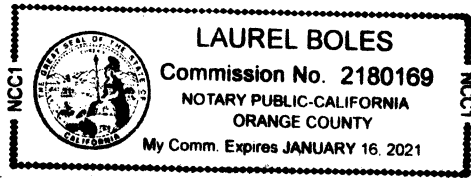
On 01/29/2020 before me, Laurel Boles _____
(Here insert name and title of the officer)

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

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

WITNESS my hand and official seal.

Laurel Boles _____
Notary Public Signature (Notary Public Seal)



ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT

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

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

Number of Pages 1 Document Date 01/29/2020

CAPACITY CLAIMED BY THE SIGNER

Individual (s)
 Corporate Officer _____
(Title)

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

INSTRUCTIONS FOR COMPLETING THIS FORM

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

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

SCOPE OF CRN REGISTRATION

PRODUCT DESCRIPTION

Description (Note 1)	Design Standard	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 (Note 2), Varivent DN25 and DN40 (Note 2), 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 E 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.

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 Technical Standards and Safety Authority
 Boilers and Pressure Vessels Safety
 Program

ENDRESS+HAUSER CONDUCTA INC.

4123 LA PALMA AVE.
ANAHEIM, CA
92807, USA



21-Aug-20

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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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