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Toronto, Ontario M9W 6N9  
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[www.tssa.org](http://www.tssa.org)

October 03, 2017

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

**Service Request Type:** BPV-Fitting Registration  
**Service Request No.:** 2162166  
**Your Reference No.:** EH-CRN-25  
**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.:** 0F19699.5  
**Main Design No.:** MEMOSENS COS81D Oxygen Sensor (see the attachment to the Statutory Declaration Form for full scope of registration)  
**Expiry Date:** 03-Oct-2027

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

The stamped copy of the approved registration and the invoice are mailed separately. 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](mailto: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,

Mark Valcic P. Eng.  
Engineer Specialist BPV  
Tel.: 416-734-3494  
Fax: 416-231-1626  
Email: [mvalcic@tssa.org](mailto:mvalcic@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**



People for Process Automation

**STATUTORY DECLARATION**  
**Registration of Fittings**

I, MIKE YOUROSKI, QUALITY MANAGER  
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

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

Located at 4123 LA PALMA AVE., ANAHEIM, CA, USA, 92807 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:9001:2008 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\_\_\_\_\_

Commissioner for Oaths:

\_\_\_\_\_  
(Printed name)  
See attached acknowledgment  
(Signature)

Michael Youroski  
(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: OF19699.5  
 Registered by: Mark Valcic, P.ENG.  
 Dated: Oct. 3, 2017

NOTE: This registration expires on Oct. 3, 2027

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety Program

**REGISTERED**

C.R.N.: OF19699.5  
 Signed: lvalcic  
 Date: Oct. 3, 2017

NOTE: MEMOSENS COSBID OXYGEN SENSOR lvalcic  
Oct. 3/17

**ENDRESS+HAUSER CONDUCTA INC.**

4123 LA PALMA AVE.  
 ANAHEIM, CA  
 92807, USA

07-Sep-17

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

Description	Design Standard	End Connections	EH TI Document
Memosens COS81D Oxygen Sensor	ASME B31.3, ASME B31.1	PG13.5	TI01201C/07/EN/01.15

**PRESSURE - TEMPERATURE RATINGS**

MDMT	MAWP AT 230 F	MAWP AT 284 F	NOTES
14F	188 psia	87 psia	None

**THIS IS PART OF**  
**CRN 0719699.5**  
 Technical Standards & Safety Authority  
 Boilers & Pressure Vessels  
 Safety Program  
*Wick 09/3/17*

**MATERIALS OF CONSTRUCTION**

STANDARD MATERIALS (NOTE 1)	NOTES
POLYPHENYLENE SULFIDE PLASTIC, STAINLESS STEEL 1.4435 TYPE 316L UNS S31603	None

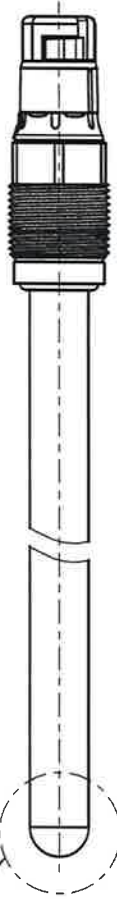
**MANUFACTURING LOCATIONS**

Endress+Hauser Conducta 70839 Gerlingen incl. manufacturing sites 04736 Waldheim and 64823 Gross-Umstadt, Germany	Endress+Hauser Conducta 215021 Suzhou, Endress+Hauser Analytical Instruments Suzhou Co. Ltd. P.R. China
Endress+Hauser Conducta 4123 LA Palma Ave., Anaheim, CA 92807, USA	

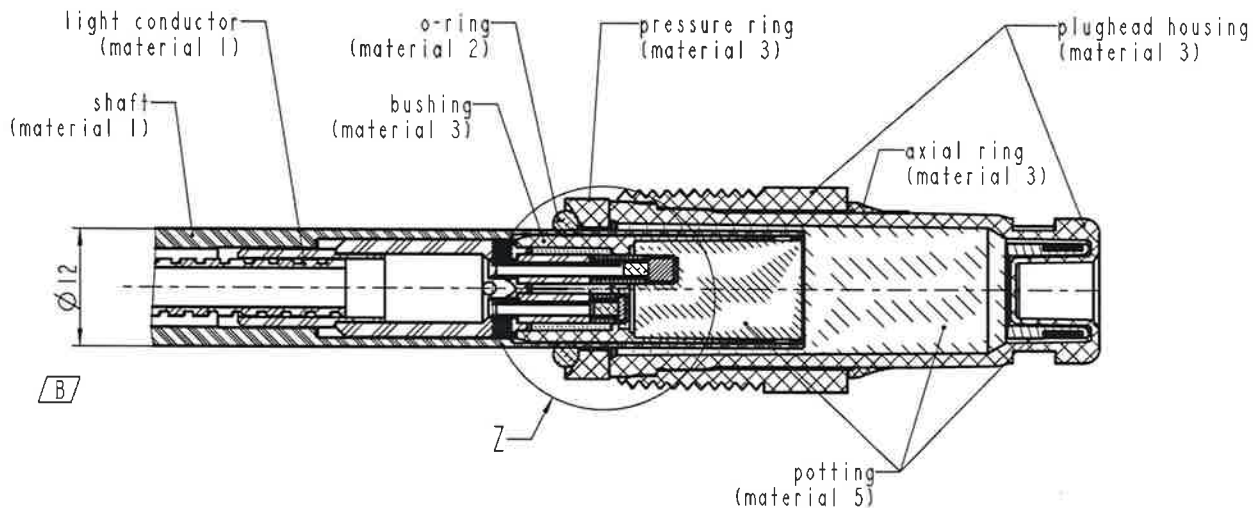
**Note 1)** The following additional alloys of superior or equivalent properties to those listed above are also included in the scope of registration:  
 Type 304 S.Steel UNS S30400, Type 304L S.Steel UNS S30403, Type 316 S.Steel UNS S31600, Type 316L S.Steel UNS S31603,  
 Alloy 20 UNS N08020, Hastelloy 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 247F max.)

ISO 10716 GPS-FUNDAMENTALS ISO 8015  
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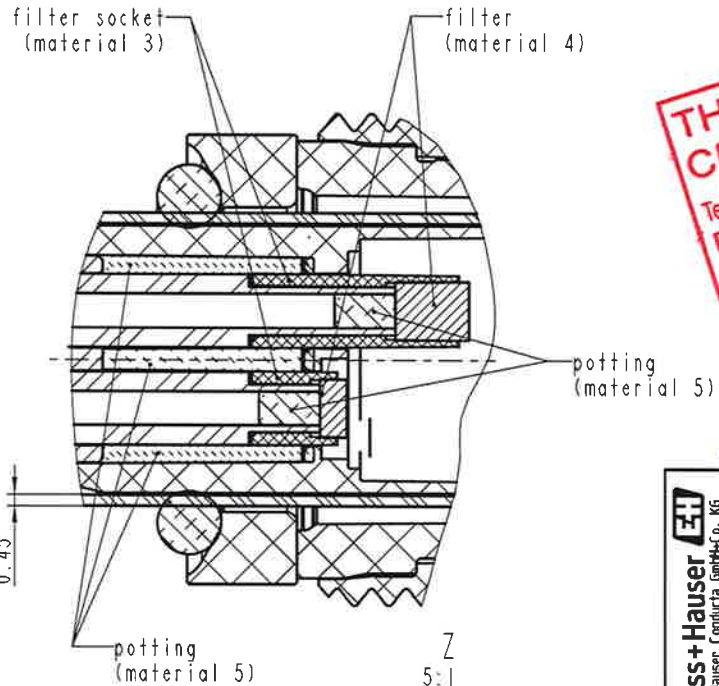
length  
appr. Ordercode



type varies depending on variant



1:1



**THIS IS PART OF**  
**CRN of 19699.5**  
 Technical Standards & Safety Authority  
 Boilers & Pressure Vessels  
 Safety Program  
*Wale Oct. 3/17*

materials	
material 1	stainless steel
material 2	elastomer
material 3	plastics
material 4	glass
material 5	epoxy encapsulant

<b>Endress+Hauser</b> <small>Endress+Hauser Conducta GmbH &amp; Co. KG        Gettlingen, Germany</small>	Refer to protection notice ISO 16016			Scale	2:1	Tolerance	-	
	Classification:			Notif. no.	Designed	2017-05-09 BlochwitzS		
	Title		Manufacturing drawing COS8XD CRN		Number of changes	0	Welding contr.	
	Project		Manufacturing drawing COS8XD CRN		Approval contr.		Pressure contr.	
Material		SAP material no. variabel		Status	Production Released	Released	2017-08-01 VettermannJ	
				No. of document	414165	Version	B	
				Weight		Doc. part	-	
				Volume		Format	A3	
						Page	1 of 1	