



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

[www.tssa.org](http://www.tssa.org)

March 28, 2022

ROUND ENGINEERING INC  
10 SEGWUN RD  
WATERDOWN ON L8B 0K6

**Workorder Type:** Registration - Fitting(Conventional)  
**Workorder No:** 8091243  
**Your Reference No.:** R-1454A - CRN#0F22152.2- DIGITAL PRESSURE SENSOR  
**Registered to:** ENDRESS+HAUSER OPTICAL ANALYSIS, 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 : 0F22152.25  
Main Design No.: Scope Of CRN Registration  
Expiry Date: Mar 11, 2032

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

**NOTE :** "Design registration completed under interprovincial agreement with jurisdictional check only".

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](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,

Amir Hariri P.Eng.  
Engineer, BPV  
Tel. : +1 416-734-3461  
Email : [ahariri@tssa.org](mailto:ahariri@tssa.org)



Technical Standards and Safety Authority  
 345 Carlingview Drive  
 Toronto, Ontario M9W 6N9  
 www.tssa.org

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, Timo Kretzler, VP of Technology  
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Endress+Hauser Optical Analysis, Inc.  
(Name of Manufacturer)

Located at 11027 Arrow Route, Rancho Cucamonga, CA, 91730, USA 1-800-619-2861  
(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 9001:2015 which has been verified by the following authority, DQS Inc.

The items covered by this declaration, for which I seek registration, are category F - Pressure Sensor type fittings. In support of this application, the following information and/or test data are attached as follows:

SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS

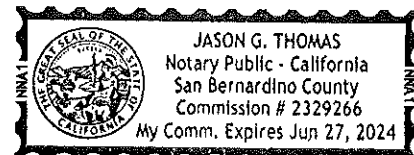
(drawings, calculations, test reports, etc.)

Declared before me at Rancho Cucamonga in the State of California  
 the 25<sup>th</sup> day of January AD 20 22.

Commissioner for Oaths:

Timo Kretzler  
(Printed name)

(Signature)



Timo Kretzler  
(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: March 11, 2032

Technical Standards and Safety Authority      Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0F22152.25

Signed: [Signature]

Date: March 28, 2022.

*\*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.*

# Endress+Hauser Optical Analysis, Inc.

11027 ARROW ROUTE  
RANCHO CUCAMONGA, CA  
91730, USA

29-Dec-21

# Endress + Hauser



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## SCOPE OF CRN REGISTRATION

| Product Description     | Drawing Numbers  | Design Code   | Process Connection | Material Specification             | MAWP at MAWT                           | MDMT            | Report Number     |
|-------------------------|--|---|--------------------|------------------------------------|--|-----------------|-------------------|
| Digital Pressure Sensor | EX5500000004 Rev. D,<br>211015117 Rev. D,<br>211012470 Rev. G,<br>211015591 Rev. C | ASME B31.3,<br>ASME B31.1,<br>NACE MR 0175 /<br>ISO 15156 | G1/8"              | ASTM A479-316L,<br>ASTM A182-F316L | 12 barg at 80°C /<br>174 psig at 176°F | -20°C /<br>-4°F | R-1454A<br>Rev. 0 |

**Note 1:** MAWP = Maximum Allowable Working Pressure, MAWT = Maximum Allowable Working Temperature, MDMT = Minimum Design Metal Temperature.

**Note 2:** For low temperature operation the products shall conform to the rules of the applicable codes under which they are used.

**Note 3:** In accordance with CSA B51 paragraph 4.2.5 Endress+Hauser Optical Analysis, Inc. is taking responsibility for the product covered under this CRN that is manufactured at:

### Endress+Hauser SE+Co. KG

Hauptstrasse 1  
79689 Maulburg, Germany

**ISO 9001 Certified by SQS**

### Endress+Hauser (India) Automation Instrumentation Pvt. Ltd.

M-192, Waluj MIDC  
Aurangabad – 431136,  
Maharashtra State, India

**ISO 9001 Certified by SQS**

**THIS IS PART OF CRN**

0F22152.25

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety  
Program

**Endress+Hauser Optical Analysis, Inc.**

11027 ARROW ROUTE  
RANCHO CUCAMONGA, CA  
91730, USA

**Endress + Hauser**



29-Dec-21

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**SCOPE OF CRN REGISTRATION CONTINUED**

**Endress+Hauser Yamanashi Co., Ltd.**

862-1 Mitsukunugi  
Sakaigawa-cho  
Fuefuki-shi  
406 0846 Yamanashi, Japan

**ISO 9001 Certified by SQS**

**Endress+Hauser (USA)**

**Automation Instrumentation Inc.**

2340 Endress Place  
Greenwood, Indiana 46143, USA

**ISO 9001 Certified by SQS**

**Endress+Hauser (Brazil)**

**Instrumentação e Automação Ltda.**

Estrada Municipal Antonio Sesti  
600 Bairro Recreio Costa Verde  
Itatiba/SP – 13254-085, Brazil

**ISO 9001 Certified by SQS**

**Endress+Hauser SE+Co. KG**

Queremathe 2  
14532 Stahnsdorf  
Germany

**ISO 9001 Certified by SQS**

**Endress+Hauser Optical Analysis, Inc.**

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RANCHO CUCAMONGA, CA  
91730, USA

**Endress + Hauser**



29-Dec-21

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**SCOPE OF CRN REGISTRATION CONTINUED**

**Endress+Hauser (Suzhou) Automation Instrumentation Co. Ltd.**

China – Singapore Suzhou Industrial Park (SIP)

Su Hong Zhong Lu No. 491

Jiangsu Province, 215021 Suzhou, P.R. China

**ISO 9001 Certified by SQS**