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Toronto, Ontario M9W 6N9
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www.tssa.org

June 21, 2022

ROUND ENGINEERING INC
10 SEGWUN RD
WATERDOWN ON L8B 0K6

Workorder Type: Registration - Fitting(Conventional)
Workorder No: 8137018
Your Reference No.: R1454B - CRN#0H22188.2
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 : 0H22188.25
Main Design No.: 8300002041 sht.1-7, -10 Rev B
Expiry Date: Mar 23, 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: 1. Design registration completed under interprovincial agreement with jurisdictional check only 2. All fittings in the J22 TDLAS Gas Analyzer System shall have valid Ontario CRNs with pressure and temperature ratings meeting registered design conditions 3. System shall be hydrostatically tested at 75 psi prior to operation

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. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Shreyas Madhuranath M.Eng, P.Eng
Engineer, BPV



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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.)

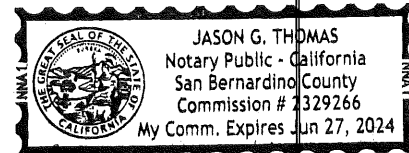
do solemnly declare that the fittings listed hereunder, which are subject to the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, comply with all of the requirements of ASME B31.3, ASME B31.1
(Title of recognized North American Standard)
 which specifies the dimensions, 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 H - J22 Analyzer System 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, USA
 the 7th day of March AD 2022.



Commissioner for Oaths:
Jason G. Thomas
(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 H.

Technical Standards and Safety Authority Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0H22188.25
 Signed:
 Date: June 21, 2022.

CRN: _____
 Registered by: _____
 Dated: _____

*Please see additional notes on the design registration letter

NOTE: This registration expires on: March 23, 2032

**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

02-Feb-22



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SCOPE OF CRN REGISTRATION

Product Description	Drawing Numbers	Design Code	Tube Sizes	Tubing Material Specification	MAWP at MAWT	MDMT	Report Number
J22 TDLAS Gas Analyzer System	8300002041 Rev. B	ASME B31.3, ASME B31.1, NACE MR 0175 / ISO 15156	1/4"	ASTM A213 TP316L, ASTM A249 TP316L, ASTM A269 TP316L, ASTM A270 TP316L,	3.45 barg at 80°C / 50 psig at 176°F	-20°C / -4°F	R-1454B 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: Per CSA Table 1 Note (2)(B) the total volume of any configured panel assembly shall not exceed 1.5 cubic feet in volume.

Note 4: Low pressure components limited to operating pressure \leq 103 kPa are not included in the Scope of the Registration.

THIS IS PART OF CRN
0H22188.25
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program