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August 9, 2022

ROUND ENGINEERING INC
10 SEGWUN RD
WATERDOWN ON L8B 0K6

Workorder Type: Registration - Fitting(Conventional)
Workorder No: 8160960
Your Reference No.: R-1454C- CRN#0H22437.2
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 : 0H22437.25
Main Design No.: 8300002043 sheet 1 to 4 REV A.2
Expiry Date: Jun 21, 2032

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 (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,

Amir Hariri P.Eng.
Engineer, BPV
Tel. : +1 416-734-3461
Email : 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 - J22 TDLAS Gas Analyzer type fittings. In support of this application, the following information and/or test data are attached as follows:
SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS

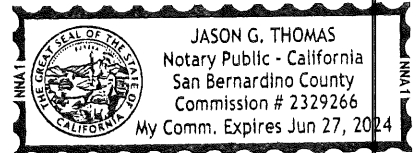
(drawings, calculations, test reports, etc.)

Declared before me at Rancho Cucamonga CA in the state of California
 the 6th day of June AD 2022.

Commissioner for Oaths:

Jason G. Thomas
(Printed name)

(Signature)



[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.

CRN: _____

Registered by: _____

Dated: _____

NOTE: This registration expires on: June 21, 2032

Technical Standards and Safety Authority
 Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0H22437.25

Signed: [Signature]

Date: August 9, 2022.

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

THIS IS PART OF CRN
0H22437.25
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program

Endress+Hauser Optical Analysis, Inc.

11027 ARROW ROUTE
RANCHO CUCAMONGA, CA
91730, USA

30-May-22

Endress+Hauser



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SCOPE OF CRN REGISTRATION

Product Description	Drawing Numbers	Design Code	Process Connections	Material Specification	MAWP at MAWT	MDMT	Report Number
J22 TDLAS Gas Analyzer	8300002043 Rev. A.2	ASME B31.3, ASME B31.1, NACE MR 0175 / ISO 15156	1/8" NPT In, G1/8" Out, G1/8" Sensor	ASTM A479-316L, ASTM A240-316L, ASTM A276-316L, UV Grade Fused Silica	50 psig at 122°F, 45 psig at 140°F / 3.45 barg at 50°C, 3.10 barg at 60°C	-20°C / -4°F	R-1454C 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.