

REGISTRATION OF A PRESSURE FITTING DESIGN

29-Sep-22

TSSA
345 Carlingview Drive
Toronto, Ontario
M9W 6N9

Attention: Tanya Francis

File Number: 13285 [0 F]

Re: Manufacturer: Endress + Hauser Optical Analysis, Inc.
Item: J22 TDLAS Gas Analyzer System
Catalog or Drawing: Scope of CRN Registration (02-Feb-22) & Design Report R-1454B Rev. 0

TSASK Codes and Standards Compliance has registered the design listed above in accordance with The Boiler and Pressure Vessel Act and Regulations and CSA B51. The Canadian Registration Number (CRN) is:

0H22188.23 Expiry Date: March 23, 2032

Please note that every fitting shall be constructed in strict accordance with the registered design.

Fitting registrations are required to be resubmitted for validation after ten (10) years from the registration date in accordance with CSA B51, Clause 4.2.1.

Should you require anything further, please do not hesitate to contact the Codes and Standards Compliance Office at your convenience.

Yours truly,



Athan Syrgiannis, P.Eng.
Codes and Standards Compliance

Remarks:

A valid quality control program must be maintained at the production facility for the fitting registration to remain valid until the expiry date.

Conditional upon compliance with the notes on the original ABSA registration.

This registration is conditional based on the understanding that the various fittings included in the system are either registered in Saskatchewan or exempt from registration per The Saskatchewan Boiler and Pressure Vessel Act and Regulations.


Statutory Declaration (Registration of Fittings)

TSK-1008

I. Declaration Information

I, Timo Kretzler,
VP of Technology
(company title, e.g. vice president, plant manager, chief engineer)
(must be in a position of authority in the manufacturing plant where the fitting is produced)
of: Endress+Hauser Optical Analysis, Inc.
(name of manufacturer)

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.

Endress+Hauser 

located at: 11027 Arrow Route, Rancho Cucamonga, CA, 91730, USA
(Plant Address - Apt/Street) (City,Prov) (Postal Code)

do solemnly declare that the fittings listed hereinunder, which are subject to the **Saskatchewan Boiler and Pressure Vessel Safety Act** (check one)

- Comply with the requirements of ASME B31.3, B31.1 which specifies the dimensions, (title of recognized North American Standard) Materials of construction, pressure / temperature ratings and identification marking of the fittings, 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, materials of construction, pressure / temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

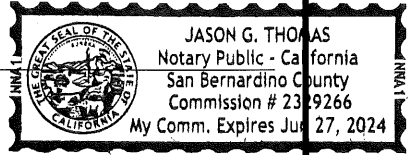
I further declare that the manufacturer of these fittings is controlled by a quality control program which has been verified by the following authority, DQS Inc. ISO 9001:2015 as being suitable for the manufacturer of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are CATEGORY H - J22 ANALYZER SYSTEM

In support of this application, the following information, calculations and / or test data are attached:
SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS

II. Declaration

DECLARED before me at Rancho Cucamonga In the State of California, USA
this 7th day of March, 2022
Timo Kretzler (print name) _____ (Signature)

(Signature of Commissioner of Oaths)



III. Office Use Only

To the best of my knowledge and belief, the application meets the requirements of the **Boiler and Pressure Vessel Safety Act** and CSA B51, Clause 4.2, and is accepted for registration in Category _____



Registration No. 0H22188.23
File No. 13285
Registered
Date: September 29, 2022
Expiry Date: March 23, 2032
Codes & Standards Compliance Office

(Date Registered - MM DD YYYY)
(For the Administrator / Chief Inspector)

(Expiry Date - MM DD YYYY)

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.

	Technical Safety Authority of Saskatchewan
Registration No.	0H22188.23
File No.	13285
Registered	
Date:	September 29, 2022
Expiry Date:	March 23, 2032
<small>Codes & Standards Compliance Office</small>	