

TYPE EXAMINATION CERTIFICATE

- [2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 2014/34/EU
- [3] Type Examination Certificate Number: **Presafe 16 ATEX 8621X** **Issue 1**
- [4] Product: **Laser Analyser Module LS25 Ex**
Laser Analyser Module LS25 Compact Ex
- [5] Manufacturer: **ABB Automation GmbH**
- [6] Address: **Stierstädter Str. 5**
60488 Frankfurt, Germany
- [7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV GL Presafe AS certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.
- The examination and test results are recorded in confidential reports listed in section 16.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018, EN 60079-15:2010, EN 60079-28:2015 & EN 60079-31:2014
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- [11] This TYPE EXAMINATION CERTIFICATE relates only to the design of the specified equipment and not to specific items of equipment subsequently manufactured.
- [12] The marking of the product shall include the following:

 **II 3 G Ex nA nC [op is Ga] IIC T4 Gc**
II 3 D Ex tc [op is Da] IIIC T100°C Dc

Date of issue:
2020-10-27

Bjørn Spongsveen
For DNV GL Presafe AS
The Certificate has been digitally signed.
See www.dnvgl.com/digitalsignatures for info



This certificate may only be reproduced in its entirety and without any change, schedule included.

DNV GL Presafe AS, Veritasveien 3, 1363 Høvik, Norway, Tel +47 67 57 88 00, www.dnvgl.com

[13]

Schedule

[14] **Type Examination Certificate No:**

Presafe 16 ATEX 8621X

Issue 1

[15] **Description of Product**

Laser Analyser Module LS25 Ex & Laser Analyser Module LS25 Compact Ex , works on transmitting infrared laser light from a transmitter unit on one side of the stack to a receiver unit in the diametrically opposite side of the stack. The measurement principle uses infrared single-line absorption spectroscopy.

Type designation

Laser Analyser Module LS25 Ex, Laser Analyser Module LS25 Compact Ex

Electrical Data

U=18 to 32 VDC, 20W

Degrees of protection (IP Code)

IP66 , according EN 60079-0

Ambient temperature:

-20°C ≤ Ta ≤ +55°C

Routine tests

Dielectric strength test according to clause 6.5.1 IEC 60079-15 Ed.4

[16] **Report No.:** 188437

Project No.: PRJN-188437-2020-PA-NOR

[17] **Specific Conditions of Use**

Potential risk of electrostatic discharge. See instructions for guidance to minimize risk of electrostatic discharge.

[18] **Essential Health and Safety Requirements**

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9

[19] **Drawings and documents**

Number	Title	Rev.	Date
12944	Main Board, 14 sheets	G2	2018-10-23
12933	Aux Board	B0	2018-06-11
12924A	LasModStdA (Laser module)	A	2003-12-09
110419	RU-B2.0 (Receiver Module),4 sheets	B2.0	2019-02-26
STO-DEV7239-JB	Snap H Module	A	2013-07-08
NDOC-7-1120	110496 - AUX-B.0 BOM	1	2019-06-14
NDOC-7-1121	110494 Main G2 BOM	1	2019-06-14
NDOC-7-1122	110419 - LG2RU B2 BOM	1	2019-06-14
17373	ATEX gasket information, Transmitter & Receiver LaserGas II 2 Sheets	-	2020-01-28
34710	Certification drawing ATEX Ex-n, gasket view LaserGas II SP, compact	0	2017-10-17
NDOC-7-713	Sample specimen for Zone 2 LS25 Receiver Label ABB with Presafe Certificate	5	2020-08-12
NDOC-7-714	Sample specimen for Zone 2 LS25 Transmitter Label ABB with Presafe Certificate	5	2020-08-12
NDOC-7-1200	Sample specimen for Zone 2 LS25 Transmitter Label ABB with Presafe Certificate	1	2020-09-24
NDOC-7-1199	Sample specimen for Zone 2 LS25 Transmitter Label ABB with Presafe Certificate	1	2020-09-24

[20] **Certificate History**

Issue	Description	Issue date	Report no.
0	Original issue	2017-11-14	D0002645
1	Assessment to new electronics	2020-10-27	188437

END OF CERTIFICATE