



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx DNV 21.0081X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2021-12-14		
Applicant:	Tunable AS Kabelgata 8 0580 Oslo Norway		
Equipment:	Natural Gas Analyser		
Optional accessory:			
Type of Protection:	Ex d, e i.		
Marking:	Ex db eb ia IIB T6 Gb, Tamb -20°C to +55°C		

Approved for issue on behalf of the IECEx
Certification Body:

Asle Kaastad

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

DNV Product Assurance AS
Veritasveien 3
1363 Hovik .
Norway





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Certificate No.: **IECEx DNV 21.0081X**

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Date of issue: 2021-12-14

Issue No: 0

Manufacturer: **Tunable AS**
Kabelgata 8
0580 Oslo
Norway

Manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[NO/PRE/ExTR20.0107/02](#)

Quality Assessment Report:

[NO/DNV/QAR21.0012/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Tunable T1000 Natural Gas Analyzer is designed for high performance real-time measurements of natural gas compositions in hazardous areas. It is protected with flameproof enclosure and increased safety type of protection with additional intrinsic safe outlet provided for temperature sensor located partially outside flameproof enclosure. It consists of main housing, gas measuring cell and terminal compartment. Main (flameproof) housing with top lid are made from stainless steel and fixed together by special fasteners. Main housing includes electronics components and intrinsic safe electronics, two ZnSe cemented lenses, temperature and pressure sensor, flameproof line bushing. The measuring cell is evaluated as containment system with limited release, breather element is part of main housing. Termination ("increased safety") compartment is provided with connection terminals for field connection and two threaded entries. It is closed by lid fixed by fastening screws. The optical arrangement inside the main enclosure makes the divergent beam to parallel through the lens. It was verified according to the IEC 60079-28:2015 clause 5.2.3.2 & 5.2.3.4 that equipment doesn't fall in scope of the mentioned standard.

SPECIFIC CONDITIONS OF USE: YES as shown below:

"X"-The flameproof joints are not intended to be repaired.

"X"-The property class of fastening screws used for fixing of the top lid of the flameproof enclosure (M5x12 6g) is specified by the manufacturer as A4-Class 80.

"X"-The measuring function of the EUT is not covered by this type examination. It shall comply with the requirements from the relevant standards which provide guidance on the performance of gas detection equipment and safety devices.