Certificate No:
TAA000032W

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Alcohol Screening Device

with type designation(s)
Alcotest 7000

Issued to
Dräger Safety AG & Co. KGaA
Lübeck, **Germany**

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product approved by this certificate is accepted for installation on all vessels classed by DNV.

Temperature	**A**
Humidity	**B**
Vibration	**n/a**
EMC	**B**
Enclosure	**B**

Issued at **Hamburg** on **2021-10-29**
This Certificate is valid until **2026-10-28**.
DNV local station: **Hamburg – CMC North/East**

Approval Engineer: **Dariusz Lesniewski**

for **DNV**

Joannis Papanuskas
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description

Test method: Electrochemical sensor
Test range: 0 to 3.0 mg/L breath alcohol concentration
Calibration: Wet gas or dry gas calibration
Power supply: internal Lithium-Ion-Battery (rechargeable via USB-C connection)
Display: 320 x 240 2.4” TFT colour display
LEDs: 3 x tricolour for indication of results and warning messages
Acoustic alarms: Various signal tones to support display and warning
Memory: Space for saving up to 30,000 tests (depending on the configuration)
Device configuration: Configurable directly via device menu
USB-C interface
Tested ambient temperature: -10°C to 55°C*
*Warning - ‘device to hot’ - at the max. ambient temp. of 55°C
Degree of protection: IP 54
Software version: 1.x

Type Approval documentation

Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021.
EN 15964: 2011

Marking of product

The products to be marked with:
- manufacturer name
- model name
- serial number
- power supply ratings

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer’s product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE