

Exhaust gas analyzer

TXM350 MARITIME – for emission measurement on marine diesel engines

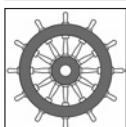
With DNV GL and NK certificate according to MARPOL
Annexe VI and NOx Technical Code 2008

Unrestricted availability thanks to pre-calibrated gas
sensors which are exchangeable on site

Ready to measure in less than 2 minutes

Tested gas sensors – as good as reference measurement
technology

Robust protective case with trolley function allows transport
by plane



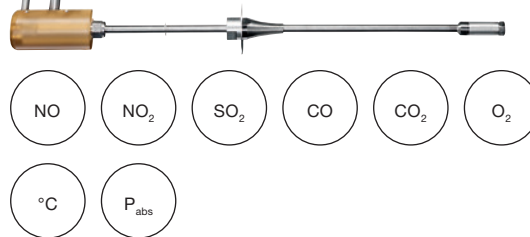
0098/2018



TAA00001K0



14DD001B



The certified 350 MARITIME is the world's first portable
exhaust gas analysis system for the measurement of
exhaust gas emissions according to MARPOL Annexe VI
and NOx Technical Code 2008.

The 350 MARITIME has the following certificates:

Germanischer Lloyd (DNV GL) certificate no. TAA00001K0,
according to MARPOL Annexe VI and NOx Technical Code
2008 and Nippon Kaiji Kyokai (Class NK) certificate no.
14DD001B. In addition, the exhaust gas analyzer fulfils the
directive on marine equipment and has the MED mark of
conformity 0098/2018.

Gas sampling takes place with a special, easy-to-install
sampling probe. The certified and durable electrochemical
gas sensors record the concentrations of the exhaust gas
components NOx (NO + NO₂ separately), CO, CO₂, O₂ and
SO₂ highly accurately and with long-term stability. CO₂
is recorded using the certified IR measurement principle.
In order to withstand the tough conditions at sea, the
complete exhaust gas analyzer incl. accessories is stored in
a robust protective case.

Overview of the advantages of the 350 MARITIME.

On-board verification examination according to NOx Technical Code 2008.

The 350 MARITIME is the ideal tool for the professional exhaust gas analysis of NO, NO₂, SO₂, CO, CO₂, O₂ and supports you in these jobs:

- In direct measurement and monitoring on board (e.g. periodical examinations and intermediate examinations).
- In simplified test and measurement procedures, e.g. when modifications such as re-adjustment of the engines have been carried out.

In addition to this, you can use it for official NOx-monitoring measurements to check the NOx limit values prescribed in MARPOL Annexe VI on board.

In addition to this, NOx measurement in special regional zones is also possible with the 350 MARITIME, for example for reducing the NOx tax in Norway.



Ordering data / Technical data

350 MARITIME

- Analyzer box 350 MARITIME V2 equipped with O₂, CO, CO₂-(IR), NO, NO₂, SO₂, incl. gas preparation, measuring range extension for individual slot (for SO₂ only), fresh air valve for continuous measurement, differential pressure sensor, temperature probe input Type K NiCr-Ni and Type S Pt10Rh-Pt, databus connection, rech. battery, integrated combustion air probe (NTC), trigger input, measurement data store, USB interface
- Control unit 350 MARITIME V2
- Robust protective case with trolley function
- Gas sampling probe with pre-filter for industrial probes, probe shaft length 335 mm, incl. probe stop, heat protection shield, special hose for NO₂-/SO₂-measurement, Tmax probe shaft 1000 °C, hose length 4 m incl. thermocouple for exhaust gas temperature measurement, NiCr-Ni, length 400 mm, Tmax. +1000 °C with 4 m connection line and additional temperature protection
- Connection line between exhaust gas analyzer and control unit, length 5 m
- fast printer with wireless infrared interface, 1 roll thermal paper and 4 AA batteries for measurement value printout on site
- Humidity/temperature measuring instrument 610 - Germanischer Lloyd certificate no. TAA00001K0
- Nippon Kaijiki Kyokai (Class NK) certificate no. 14DD001B

General technical data

Operating temperature	+5 to +45 °C
Storage temperature	-20 to +50 °C
Voltage supply	Li ion rechargeable battery AC mains unit 100 V to 240 V (50 to 60 Hz)
Electrical power consumption	max. 40 W
Max. positive pressure at gas input	50 hPa
Max. negative pressure at gas input	-300 hPa
Weight	Approx. 17 kg
Dimensions (case)	56.5 x 45.5 x 26.5 cm
Guarantee	
Measuring instrument	2 years
Gas sensors	CO, NO, NO ₂ , SO ₂ : 1 year O ₂ sensor: 1.5 years CO ₂ -IR sensor: 2 years
Pumps	0.5 years
Solenoid valves	0.5 years
Thermocouples	1 year
Rechargeable batteries	1 year
Probes	2 years

Technical data 350 MARITIME

	Measuring range	Tolerance
°C, exhaust gas	-40 to +1000 °C	max. ±5 K
O ₂	0 to 25 Vol. %	According to to MARPOL Annex VI and NO _x Technical Code
CO	0 to 3000 ppm	
NO	0 to 3000 ppm	
NO ₂	0 to 500 ppm	
SO ₂	0 to 3000 ppm	
CO ₂ (IR)	0 to 40 Vol. %	
P _{abs}	600 to 1150 hPa	±5 hPa at +22 °C ±10 hPa at -5 to +45 °C