

## Exhaust gas analyzer

**testo 350 MARITIME -  
for emission measurement on  
marine diesel engines**

---

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

---

Easy installation of gas sampling probe

---

Immediate operative readiness after switching on

---

Fast and easy sensor exchange thanks to pre-calibrated  
„plug & play“ gas sensors

---

Easy and convenient transport in robust protective case  
with trolley function

---



0098/12



37 811 - 12 HH



14DD001B



The certified testo 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 testo 350 MARITIME has the following certificates:

Germanischer Lloyd (DNV GL) certificate no. 37811 - 12 HH, according to MARPOL Annexe VI and NOx Technical Code 2008 and Nippon Kaiji Kyokai (Class NK) certificate no. 14DD001B.

Gas sampling takes place with a special, easy-to-install sampling probe. The certified and durable electrochemical gas sensors (ECS) record the concentrations of the exhaust gas components O<sub>2</sub>, CO, NOx (NO + NO<sub>2</sub> separately) and SO<sub>2</sub> highly accurately and with long-term stability. CO<sub>2</sub> 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 testo 350 MARITIME.

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

The testo 350 MARITIME measures the gaseous concentrations of O<sub>2</sub>, CO, CO<sub>2</sub>, NOx and SO<sub>2</sub> and supports you in the following applications:

- Periodic examinations and intermediary examinations
- Direct measurement and monitoring on board
- Simplified test and measurement procedures.

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 testo 350 MARITIME, for example for reducing the NOx tax in Norway.

Control unit  
testo 350 MARITIME

Analyzer box  
testo 350 MARITIME

Gas sampling probe  
with probe pre-filter



Practical trolley

## Ordering data / Technical data

### testo 350 MARITIME

- Analyzer box testo 350 MARITIME V2 equipped with O<sub>2</sub>, CO, CO<sub>2</sub>-(IR), NO, NO<sub>2</sub>, SO<sub>2</sub>, incl. gas preparation, measuring range extension for individual slot (for SO<sub>2</sub> only), fresh air valve for continuous measurement, differential pressure sensor, temperature probe input Type K NiCr-Ni and Type S Pt10Rh-Pt, Testo databus connection, rech. battery, integrated combustion air probe (NTC), trigger input, measurement data store, USB interface
- Control unit testo 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 NO<sub>2</sub>-/SO<sub>2</sub>-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
- Testo fast printer with wireless infrared interface, 1 roll thermal paper and 4 AA batteries for measurement value printout on site
- Humidity/temperature measuring instrument testo 610
- Germanischer Lloyd certificate no. 37 811 - 12 HH
- Nippon Kaijiki Kyokai (Class NK) certificate no. 14DD001B

Part no. 0563 3503

#### 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

### Technical data testo 350 MARITIME

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

