

# Exhaust gas analyzer

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

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With DNV and NK certificate

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

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Ready to measure in less than 2 minutes

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Tested gas sensors – as good as reference measurement  
technology

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Robust protective case with trolley function allows transport  
by plane

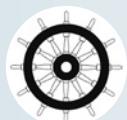
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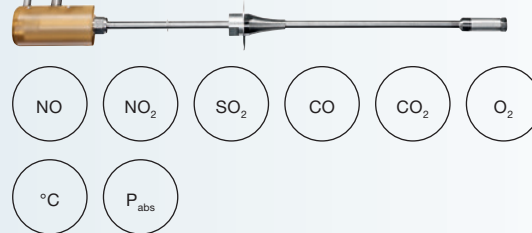
TAA00001K0



TA23536M



MEDB0000328  
MEDD00002FU



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:

- DNV Certificate No. TAA00001K0 Rev. 4
- Nippon Kaiji Kyokai (Class NK) certificate no. TA23536M

In addition, the flue gas analyzer complies with the guidelines for marine equipment according to MED Certificate No. MEDB0000328 Rev. 3 (Module B) and MEDD00002FU (Module D).

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 + NO<sub>2</sub> separately), CO, CO<sub>2</sub>, O<sub>2</sub> 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 is the ideal tool for the professional exhaust gas analysis of NO, NO<sub>2</sub>, SO<sub>2</sub>, CO, CO<sub>2</sub>, O<sub>2</sub> 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 testo 350 MARITIME.



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
- DNV certificate no. TAA00001K0 rev. 4
- Nippon Kaijiki Kyokai (Class NK) certificate no. TA23536M
- MED Certificate No. MEDB0000328 Rev. 3 (Module B) and MEDD00002FU (Module D)

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
Guarantee	
Measuring instrument	2 years
Gas sensors	CO, NO, NO <sub>2</sub> , SO <sub>2</sub> : 1 year O <sub>2</sub> sensor: 1.5 years CO <sub>2</sub> -IR sensor: 2 years
Pumps	0.5 years
Solenoid valves	0.5 years
Thermocouples	1 year
Rechargeable batteries	1 year
Probes	2 years
Guarantee conditions	<a href="https://www.testo.com/guarantee">https://www.testo.com/guarantee</a>

### 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 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



Hassellunden 11A, 2765 Smørum  
Tel. 45 95 04 10  
info@buhl-bonsoe.dk  
www.buhl-bonsoe.dk