



Committing to the future

testo 350-MARITIME

Portable Emission Analyzer - GL Type Approval for MARPOL 73/78 Annex VI

For compliance testing - NO_x Technical Code and MEPC.103(49)



O₂

CO

CO₂

NO_x

(SO₂)



ETA Associates

119 Foster Street, Bldg #6 • Peabody, MA 01960

Tel: (978) 532-1330 • Fax: (978) 532 7325 • www.ETAassociates.com • eta@ETAassociates.com



testo 350 MARITIME .

The first portable emission analyzer approved for MARPOL Annex VI and the NOx Technical Code

As air quality regulations become more strict and emission control areas become more prevalent, it's good to have the NEW testo 350-MARITIME as your emission testing solution. Built to meet the demands of maritime conditions, the testo 350 MARITIME measures O₂, CO and NO_x more easily and less costly than other methods available. The perfect analyzer to test exhaust gas emissions subject to MARPOL Annex VI and the MEPC.103(49) protocol guidelines.

Analyzer Box w/ Docked
Control Unit
GL Approved No 59 488-08 HH

Highest Accuracy – Rugged Dependability

Years of practical experience in measuring emissions from industrial engines has resulted in a new analyzer designed for the marine industry. High accuracy to meet regulatory requirements. Unsurpassed portability to test anywhere, any time! Intuitive operation for the easier testing and data reporting

The testo 350 MARITIME is a complete emission analyzer system that accurately measures O₂, CO, NO_x, and CO₂. The sensors, electronics, pumps, sample conditioning system are integrated into a small compact analyzer weighing less than 10 lbs.

Simple Accurate Testing

Testing doesn't get any easier. Simply put the probe (w/ sintered filter) into the exhaust stack and activate the pump. The emission measurements will quickly be seen on large back-lit display the displays. For greater testing flexibility, use easyEmission software to control the analyzer, view data in many formats, or print Emission reports

Reference method accuracy at a fraction of the price, all contained convenient rugged transport case perfect for testing Marine applications. The testo 350 MARITIME will make your emission testing and reporting quick, easy, and affordable

Type Approved:

Germanischer Lloyd (GL)-type approval certificate No 59 488 - 08 HH subject to MARPOL 73/78 Annex VI, NO_x Technical Code and MEPC.103103(49)-guideline



The solution for on-board emission testing

On-board verification in compliance with the NOx Technical Code

The testo 350 MARITIME measures O₂, CO, CO₂ and NO_x as a complete integrated emission testing system applicable to the following MARPOL Annex VI requirements.

- On-board periodic & intermediate surveys using the Direct Measurement and Monitoring method
- On-board Simplified Measurement Method



Required for any engine modification or adjustment

- Verification / Inspection of the emission limits (limit values) as stipulated in MARPOL Annex VI
- Verification of NO_x-control equipment through direct measurements onboard
- Verification in regions with local or national legislation (subjected to NO_x tax)
- Tuning for engine setup and verification. Periodic monitoring for local & port regulation.



Technical data testo 350-MARITIME

Parameter	Measuring range	Accuracy
°C, flue gas	-40 up to 1000°C	max. ±5 K
O ₂	0 ÷ 25 Vol%	
CO	0 ÷ 3000 ppm	
NO	0 ÷ 3000 ppm	Meets and exceeds the requirements of NO _x
NO ₂	0 ÷ 500 ppm	Technical Code as
SO ₂	0 ÷ 3000 ppm	Type
CO ₂ (IR)	0 ÷ 40 Vol%	approved by GL
pabs	600 ÷ 1150 hPa	±5 hPa at 22 °C ±10 hPa at -5°C up to 45°C
Storage temperature	-10°C up to 50°C	
Operation temperature	5°C up to 50°C	
Power supply	11 ÷ 40 V DC or 110 ... 230 V AC 50/60 Hz buffer battery NiMH 8,4V/4,5Ah	
Electrical power consumption	max. 40 W	
Max. positive pressure / flue gas	50 hPa	
Max. negative pressure / flue gas	-200 hPa	
weight (system including case)	appr. 17 kg / 37.47lb.	
dimensions (case)	56,5 x 45,5 x 26,5 cm	



Certificate Nr. 59 488 - 08 HH



The Complete Emission Test Kit:



Emission Analyzer testo 350-MARITIME fitted with: O₂, CO, CO₂-
(IR), NO and NO₂, thermoelectric sample gas cooler, rechargeable
battery pack, auto programming w/.250,000 data logging memory

Control-Unit testo 350-MARITIME

Connection cable ??? ft (2 m) between Analyzer & Control Unit

Exhaust gas sampling probe with TC & sintered metal pre-filter

Mounting flange for gas sampling probe

Wheeled Transport Case . w/ cooling fan for in-case operation

AC power cable w/ battery clamps for extended battery operation

GL Type approval Certificate # 59 488 - 08 HH, ISO Cert QS-062HH

Order Nr. 0563 3500

Call Testo for pricing

Optional:

Standard ambient climate probe (temperature and relative humidity)
Order.-Nr. 0636 9740

Connection cable to ambient climate probe, length 1,5 m
Order.-Nr. 0430 0143

* SO₂-measuring on request

Germanischer Lloyd (GL) - Certificate



Rugged case with access ports & integrated wheels and handle for easy transport

For more information contact.

Testo Inc.
40 White Lake Road
Sparta, NJ 07871
Toll Free: 800-227-0729
Fax: 862-354-5020
E-Mail: info@testo.com
Internet: www.testo350.com