



## Tankscope II

[ The toughest gas detector for the marine industry ]

**MSA**

# Tankscope II

[ Safety in your hand ]

Tankscope II is extremely compact, reliable and easy to use. The most application-specific multi-gas detector, it sets new standards for the marine industry.



■ Detection of Combustible gases in air and inert atmospheres. Oxygen and Toxic gases optional

■ New direct beam infrared sensor for measuring hydrocarbons

■ Large, easy-to-read display for quick data viewing

■ Robust, easy-to-grip design

■ High protection against saltwater

■ Clear and intuitive to use

■ Simple one-hand operation

## Tankscope II

Designed for the measurement of hydrocarbon gas in crude oil cargo tanks that use inert gas systems.

Building on the experience from the original Tankscope, the innovative Tankscope II combines proven reliability with high-tech features. Tankscope II can measure up to five gases simultaneously including oxygen.

### Applications:

- Chemical tanker
- Crude oil cargo tanks
- Pre-entry checks in tanks
- LNG/LPG tankers
- Bulk carriers
- Personal monitor for tank maintenance and cleaning



### [ Operation ]

Multi-language display options with easy-to-read short texts. Intuitive and easy operation ensure safe use, without the need for additional information.

### [ Construction ]

A durable, carbon-filled nylon case. Extremely robust for even the toughest requirements. Extremely resistant against corrosive gas and saltwater.

### [ Display ]

The largest fully graphic LCD of its kind. High contrast. Bright, homogenous background lighting. Easy-to-read text; with all gas readings displayed simultaneously. Clear text for alarm: two or four alarm levels per channel.

### [ Data Logging ]

Standard data logging. All data can be accessed via the ORION<sup>plus</sup> link software on your computer.

### [ Link Software ]

Downloads information, presents data as tables or graphs and protocols on your computer.

### [ Pump ]

Built-in, continuous running pump with MSA electrical "Perma-Check" function. For remote sampling, a multi-filter system protects the pump and sensors from dust and water.



### [ Power Supply ]

Either rechargeable NiMH or disposable alkaline battery pack. Both can be changed in hazardous areas. Battery life  $\geq$  11 hours.

### [ Accessories ]

Extensive accessory range includes a protective case, battery charger, floating probe and sampling line in customised length up to 30 metres.

### [ Sensors & Calibration ]

IR HC sensor: newly MSA patented direct beam infrared sensor combines reliability and safety.

Measuring range: 0 – 25 Vol.% HC.  
Standard calibration: Butane, Propane or Ethylene.

LEL: MSA patented 20 L catalytic silicon resistant sensor.

Measuring range: 0–100% LEL.  
Standard calibration: Methane, Propane or Pentane.

O<sub>2</sub>: electrochemical sensor of proven MSA quality.

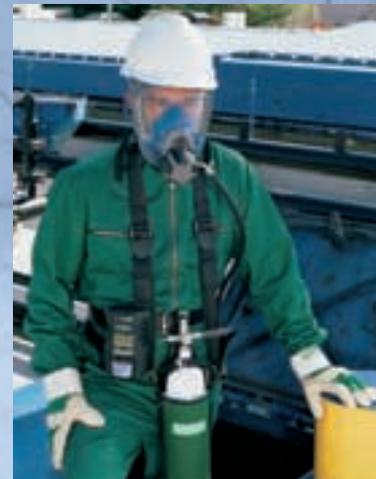
Measuring range: 0 – 25 Vol.% O<sub>2</sub>.

### [ Warranty ]

5 years. Exception: 2-year warranty on sensors and NiMH battery packs.

### [ Approvals ]

According to the latest norms such as ATEX Directive 94/9/EC and the MED 96/98/EC  0736/No. 213.014.



## [ Tankscope II Specifications ]

Gas	Range	Resolution
IR HC	0–25% Vol	0.1% Vol
Combustible gases	0–100% LEL	1% LEL
Oxygen	0–25% Vol	0.1% Vol
Carbon monoxide	0–999 ppm	1 ppm
Hydrogen sulphide	0–200 ppm	1 ppm
Weight	410 g [incl. battery pack]	
Dimension	165 x 92 x 66 mm [L x B x D]	
Alarm	Two extra bright LEDs, visible from a 320° angle and a loud audible alarm	
Display	High contrast, large display. Separate display for gas readings and additional information including battery life	
Battery type	Rechargeable NiMH or disposable Alkaline battery pack Can be replaced in hazardous area	
Battery life	NiMH	11 hours
	Alkaline batteries	9 hours
Charging	≤ 3 hours using MSA fast charger input [90–260 VAC]	
Operating range	–20 °C to +50 °C	
Humidity	15–90% RH non condensing short periods 5–95% RH non condensing	
Ingress protection	IP 54 minimum	
Warranty	2 years for sensors and NiMH battery pack, 5 years for case and electronics under normal conditions	
Certification	EN 50014/EN 50018/EN 50019/EN 50020/ EN 61779/EN 50104/EN 50270/EN 50271/ EN 45544 Ⓢ II 2G EEx ia de IICT4/T3 –20 °C to +40 °C/+50 °C Ⓢ 0736/No. 213.014 NiMH T4 –20 °C to +40 °C Alkaline Duracell T4: –20 °C to +50 °C Alkaline Varta T3: –20 °C to +50 °C	

## [ Ordering Information ]

10063901	Tankscope II, IR HC, Butane/O <sub>2</sub> , NiMH*
10063902	Tankscope II, IR HC, Propane/O <sub>2</sub> , NiMH*
10063903	Tankscope II, IR HC, Butane, NiMH*
10063904	Tankscope II, IR HC, Propane, NiMH*

\*including rubber boot & shoulder strap.  
Charger not included

### Accessories

10022036	ORION® protective rubber boot, black
10020485	ORION® case, leather
474555	Shoulder strap
10034276	Vehicle charger [12 V DC]
10065833	Sampling line PU, conductive 5 m
10065832	Sampling line PU, conductive 3 m
10065831	Sampling line PU, conductive 1.5 m
10065764	Sampling line PU, conductive tube 6 x 3.5 mm
D6203730	Sampling system, 5 m, with float
D6071039	Floating probe
10041970	ORION® NiMH fast charger, complete
10073664	ORION® charging module

### Sensors & Batteries

10062201	IR HC Sensor, Butane
10062202	IR HC Sensor, Propane
10024247	LEL Sensor [combustible]
10073091	O <sub>2</sub> Sensor
711306	CO Sensor
711307	H <sub>2</sub> S Sensor
10073663	NiMH battery pack
10031092	Alkaline battery pack



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