

# Marine Tank Tester Gas Monitor



## Marine Tank Tester

- Meets ship class/rule requirements
- Monitor up to 6 different gases
- Powerful pump up to 125' (38m) (non PID versions)
- PPM, %LEL, %Vol. auto ranging
- VOC monitoring
- ABS, CSA, CE approved
- Intrinsically safe design



RKI is proud to offer the next generation of our popular EAGLE portable gas detector. Equipped with features that are not available on competitive units, the EAGLE 2 is one of the most suitable portable gas detectors for ship applications.

## Applications:

- HC/O<sub>2</sub> gas detector in air & in inert background by IMO/ship class.
- Portable gas detector by IMO coal carrier application with CH<sub>4</sub> sensor for air and inert background.
- Pump room monitoring detector by OCIMF/ISGOTT.
- Benzene vapor monitoring by IMO/OCIMF.
- Suitable gas detector by the changed BC Code (IMSBC Code, International Maritime Solid Bulk Cargoes Code, since January 01, 2011).



# SPECIFICATIONS

Eagle 2 portable gas detector was developed to meet the following marine requirements:

- Easy to handle (Field friendly design)
- Heavy duty case
- Long sensor lifetime
- Easy to maintain
- Powerful sampling pump (up to 125ft, 38m)



Approvals:



Specifications:	
<b>Enclosure</b>	Weather and chemical resistant. RFI/EMI coated high impact polycarbonate-PBT blend. Can operate in 2.0" of water without leakage. Ergonomically balanced with rugged top mounted handle. Water & dust resistant equivalent to IP-64.
<b>Dimensions</b>	9.5"L x 5.25"W x 5.875"H (L241 x W133 x H149mm).
<b>Weight</b>	3.8Lbs (1.72kg, standard 4 gases with batteries)
<b>Detection Principle</b>	Catalytic combustion, electrochemical cell, galvanic cell, infrared, Photoionization detector, and thermal conductivity.
<b>Sampling Method</b>	Powerful, long-life internal pump (over 6,000 hours) can draw samples over 125ft (38m). Flow rate approximately 2.0SCFH (1.0 lpm).
<b>Display</b>	3 display modes: display all gases, Large font-autoscroll, or large font- manual scroll. Polyurethane protected overlay. Backlight, illuminates for alarms and by demand, with adjustable time.
<b>Language</b>	Readout can display in 5 languages (English, French, German, Italian, or Spanish)
<b>Alarms</b>	2 Alarms per channel plus TWA and STEL alarms for toxics. The two alarms are fully adjustable for levels, latching or self reset, and silenceable.
<b>Alarm Method</b>	Buzzer 95dB at 30cm, four high intensity LED's.
<b>Controls</b>	4 External glove friendly push buttons for operation, demand zero, and autocalibration. Buttons also access LEL/ppm, alarm silence, peak hold, TWA/STEL values, battery status, conversion factors, and many other features.
<b>Continuous Operation</b>	At 70°F (21°C), 18 hours using alkaline batteries, or 20 hours using Ni-MH.
<b>Power Source</b>	4 alkaline or Ni-MH C size batteries.
<b>Operating Temp &amp; Humidity</b>	-20°C ~ 50°C (-4°F~122°F), 0~95%RH (non-condensing).
<b>Indication Accuracy</b>	Maximum variance ±5% of full scale.
<b>Response Time</b>	30 seconds to 90% (for most gases) using standard 5 ft (1.5m) hose.
<b>Safety Rating</b>	Intrinsically Safe, Class 1, Group A,B,C,D. Approval: CSA/CE.
<b>Standard Accessories</b>	Shoulder strap, alkaline batteries, hydrophobic probe, 5ft (1.5m) hose.
<b>Optional Accessories</b>	<ul style="list-style-type: none"> <li>• Dilution fitting (50:50)</li> <li>• Ni-MH batteries</li> <li>• Battery charger, 100-240VAC, or 12VDC (charge time 4 hours) with continuous operation function, 115VAC or 12VDC</li> <li>• Extension hoses</li> </ul>

Specifications subject to change without notice.




# ORDER INFORMATION

\* All LEL and PPM sensor choose one of the following calibrations when ordering Isobutane (for HC) / Methane (standard calibration) Hydrogen H2.

NOTE: Other gas combinations are possible. Please contact RKI Instruments or your authorized distributor.

Instruments	
721-001	EAGLE 2 for LEL & PPM *
721-002-M	Eagle 2 for O2 (0-40%), with internal oil mist filter.
721-005	Eagle 2 for SO2 (0-6 ppm)
721-007	Eagle 2 for AsH3 (0-1.5 ppm)
721-008	Eagle 2 for PH3 (0-1.0 ppm)
721-021	Eagle 2 for HC (0-100% LEL/ 0-30% VOL. auto range IR)
721-101-P1	Eagle 2 for VOC's (0-50 ppm, PID)
722-001-D	Eagle 2 (LEL and ppm)/O2 (0-40%) with dilution fitting
722-005	Eagle 2 for O2 (0-40%)/H2S (0-100 ppm)
722-010	Eagle 2 (LEL and ppm)/NH3 (0-75 ppm)
722-060	Eagle 2 (LEL and ppm)/PH3 (0-1.0 ppm)
722-062	Eagle 2 (LEL and ppm)/AsH3 (0-1.5 ppm)
722-068	Eagle 2 for HC (0-100% LEL/ 0-30% VOL. auto range IR)/O2 (0-40%)
723-002	Eagle 2 for CH4 (LEL and ppm)/O2 (0-40%)/CO (0-500 ppm)
723-032	Eagle 2 for CH4 (IR autorange % LEL % Vol)/O2 (0-40%)/CO (0-500 ppm)
723-054	Eagle 2 for HC (0-100% LEL/ 0-30% VOL. auto range IR)/O2 (0-40%)/H2S (0-100 ppm)
724-001	Eagle 2 (LEL and ppm)/O2 (0-40%)/CO (0-500 ppm)/H2S (0-100 ppm)
724-001-D	Eagle 2 (LEL and ppm)/O2 (0-40%)/CO (0-500 ppm)/H2S (0-100 ppm) with dilution fitting
724-012	Eagle 2 (LEL and ppm)/O2 (0-40%)/CO (0-500 ppm)/NH3 (0-75 ppm)
724-052	Eagle 2 (LEL and ppm)/O2 (0-40%)/CO (0-500 ppm)/HCN (0-15 ppm)
724-059-02	Eagle 2 for CH4 (0-100% LEL/ 0-100% VOL, auto range IR)/O2 (0-40%)/CO (0-500 ppm)/CO2 (0-10,000 ppm)
724-059-03	Eagle 2 for CH4 (0-100% LEL/ 0-100% VOL, auto range IR)/O2 (0-40%)/CO (0-500 ppm)/CO2 (0-5%)
724-059-05	Eagle 2 for CH4 (0-100% LEL/ 0-100% VOL, auto range IR)/O2 (0-40%)/CO (0-500 ppm)/CO2 (0-60%)
724-085	Eagle 2 (LEL and ppm)/O2 (0-40%)/CO (0-500 ppm)/ASH3 (0-1.5 ppm)
724-101-P1	Eagle 2 (LEL and ppm)/O2 (0-40%)/H2S (0-100 ppm)/VOC's (0-50 ppm, PID)
725-004-02	Eagle 2 (LEL and ppm)/O2 (0-40%)/CO (0-500 ppm)/H2S (0-100 ppm)/CO2 (0-10,000 ppm)
725-028	Eagle 2 (LEL and ppm)/O2 (0-40%)/CO (0-500 ppm)/NH3 (0-75 ppm)/PH3 (0-1 ppm)
725-115	Eagle 2 (LEL and ppm)/O2 (0-40%)/H2S ( 0-100 ppm)/HCN (0-15 ppm)/SO2 (0-6 ppm)
726-101-P1	Eagle 2 (LEL and ppm)/O2 (0-40%) H2S (0-100 ppm)/CO (0-500 ppm)/SO2 (0-6 ppm)/VOC's (0-50 ppm, PID)
726-118	Eagle 2 (LEL and ppm)/O2 (0-40%)/CO (0-500 ppm)/H2S (0-100 ppm)/SO2 (0-6 ppm)/HCN (0-15 ppm)

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Instrument Accessories		
49-2175RK-02	Battery charger, 100~240VAC, with 4 C size NI-MH batteries, Eagle 2	
80-0101RKE	Floating ball/hose assembly, 25' (8m), with Eagle 2 fitting	
80-0405RK	Dilution fitting 50:50	
80-0540RK	Sampling hose 40' (12m), polyurethane with Eagle 2 fittings	
80-0575RK	Sampling hose 75' (22m), polyurethane with Eagle 2 fittings	
80-0599RK	Sampling hose 100' (30m), polyurethane with Eagle 2 fittings	
80-0599RK-125	Sampling hose 125' (38m), polyurethane with Eagle 2 fittings	
Aluminum Cylinders and Equipment		
81-0151RK-04	H2S 25 ppm in N2 bal. 34AL cylinder	 
81-0154RK-04	Mixed calibration gas, 34AL cylinder, CH4 50% LEL/ O2 12%/ CO 50 ppm/H2S 25 ppm in N2 bal.	
81-0158RK-04	Mixed calibration gas, 34AL cylinder, i-C4H10 50% LEL/O2 12%/CO 50 ppm/H2S 25 ppm in N2 bal.	
81-1054RK	Regulator, demand flow for 34AL/58AL/103L	
81-1132RK	Sampling bag (1L)	
		34 AL Cylinder      Regulator for 34AL cylinder
Steel Cylinders and Equipment		
81-0011RK-01	CH4, 10% VOL in N2 bal. 34L	 
81-0012RK-01	CH4, 50% LEL in air bal. 34L	
81-0018RK-01	i-C4H10, 50% LEL in air bal. 34L	
81-0019RK-01	i-C4H10, 10% VOL in N2 bal. 34L	
81-0064RK-01	CO, 50 ppm in air bal. 34L	
81-0074RK	O2, 2% VOL in N2 bal. 17L	
81-0075RK-01	O2, 10% VOL in N2 bal. 34L	
81-0078RK-01	N2, 99.999%. 34L cylinder	
81-1055RK	Regulator, demand flow for 17L/34L steel cylinders	
		34L & 17L Cylinders      Regulator for 34/17L cylinder



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**Authorized Distributor:**