



## Eagle 3 - Marine Portable Gas Getector



### suitable Portable Gas Detectors!

- Meets ship class/rule requirements.
- Monitor up to 6 different gases.
- Powerful pump up to 125'(38m).
- PPM,%LEL,%VOL. auto ranging.
- VOC monitoring.
- ABS, CSA, CE, ATEX approved.
- Intrinsically Safe Design



The EAGLE 3 is a powerful solution for just about any portable gas monitoring situation. Equipped with features that are not available on competitive units, the EAGLE 3 gas detector is the ideal gas detector for use before entering a confined space on a vessel.

### Applications;

- Portable gas detetcor for the enclosed space before entry – IMO MSC.581(110) 21 Add.3 & IMO MSC.1 Circ. 1477. HC/O2/CO/H2S/CO2.
- For cargo management – Portable gas detector in air & in inert base by IMO/ship class.
  - HC %LEL/HC %VOL/O2, HC %LEL/HC %VOL/O2/H2S, CH4 %LEL/CH4 %VOL/O2/CO/CO2.
- Portable gas detector by IMO coal carrier application – Bulk carrier. CH4/O2/CO/H2S/CO2.
- Portable gas detector for WBTS(Water Ballast Treatment System) gases. CL2, O3.
- Portable gas detector for LNG fuel ship by ISGOTT6 & IAPH.
- Portable gas detector fo VOC checking – Chemical tanker, COT tanker etc.



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Eagle 2 Portable Gas detector is developed by the following ship's requirements;

- Easy to handle(Field friendly design).
- Easy to operate with gloved hands.
- Heavy-duty case.
- Long sensor lifetime.
- Easy to do maintenance.
- Powerful sampling pump[up to 125ft(38m)].



**Approval.**

ABS approved.

**Specification.**

Enclosure	Weatherproof 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 resistance equi. to IP64.
Dimensions	11.6W x 26.4L x 15.2H cm( 4.6"W x 10.4"L x 6"H).
Weight	1.6kg(3.5Lbs)
Detection Principle	Catalytic combustion, Electrochemical cell, Infrared, Photoionization(PID), Thermal conductivity(TC).
Sampling method	Powerful, long-life internal pump can draw samples over 125 feet, Flow rate approximately 2.0 SCFH.
Display	Graphic LCD type display. Capable of displaying up to 6 channels simultaneously. Backlit and viewable in outdoor sunlight.
Alarm method	Buzzer 90dB at 30cm, four high intensity LED's.
Controls	4 external glov friendly push buttons for operation, demand zero, and auto calibration. Buttons also access LEL/ppm, alarm silence, peak hold, TWA/STEL values, battery status,conversion factors, and many other features.
Bluetooth	BLE for iOS and Android Phones.
Power source	Li-ion rechargeable battery pack
Battery charging	AC/DC charger included. 8 hours for full charge.
Operating temp.	-20°C to 50°C(-4°F to 122°F), 0 to 95%RH, non-condensing.
Environmental	IP64.
Safety rating	Intrinsically Safe, Class I, Div 1, Groups A,B,C,D. Pending Approvals: CSA/CE/ATEX/IECEX.
Standard accessory	Shoulder strap, hydrophobic probe, 5 foot hose, internal hydrophobic filter, charger and cable for datalogging.
Optional accessory	Dilution fitting(50/50), Sampling hose, Teflon lined sampling hose.

## Order information.

Portable gas detector.

721-006	Eagle 2 for Chlorine(CL2), 0~3.0ppm ☞ WBTS(Water Ballast Treatment System) gas.
72-5109RK	Eagle 1 for Ozone(O3), 0~1.0ppm ☞ WBTS(Water Ballast Treatment System) gas.
72-5111RK-01	Eagle 1 for Ammonia(NH3), 0~200ppm. ☞ NH3/LPG ship
721-101-P2	Eagle 2 for VOC's 0~2,000ppm(PID). ☞ VOC checking for Chemical ship
721-005	Eagle for Sulfur Dioxide(SO2), 0~6.0ppm
72-5113RK	Eagle 1 for Nitric Oxide(NO), 0~100ppm
72-5114RK	Eagle 1 for Nitrogen Dioxide(NO2), 0~15ppm.
722-068	Eagle 2 for HC(100%LEL/30%VOL(IR) autoranging)/O2(0~40%) in inert & in air. ☞ Crude Oil Tanker, Chemical tanker, LPG ship.
72-5355RK	Eagle 1 for HC(100%LEL/30%VOL(IR) autoranging)/O2(0~40%)/H2S(0~1,000ppm) in inert & in air. ☞ Crude Oil tanker with high H2S gas.
724-001	Eagle 2 for CH4 %LEL & PPM/O2(0~40%)/H2S(0~100ppm)/CO(0~500ppm) ☞ Portable gas detector for the enclosed space before entry. LNG leak check for LNG fuel ship. For all ships.
724-001-81-SDME2-02	Eagle 2 for CH4 %LEL & PPM/O2(0~40%)/H2S(0~100ppm)/CO(0~500ppm) with Calibration station for bump test and calibration. Calibration station, model SDM-E2 with AC adaptor, flash drive, USB cable, tubing, CD, & Demand flow regulator. Note: Cal. Gas=> Local purchase. ☞ Portable gas detector for the enclosed space before entry. LNG leak check for LNG fuel ship. For all ships. Bump test and Calibration in field by ISGOTT6/IAPH.
724-001 -D	Eagle 2 for CH4 %LEL & PPM/O2(0~40%)/H2S(0~100ppm)/CO(0~500ppm) with dilutor. ☞ Portable gas detector for bulk carrier/VLOC
724-059-05	Eagle 2 for CH4(100%LEL/100%Volume(IR) autoranging)/O2(0~40%)/CO(0~500ppm)/CO2(0~60%(IR). ☞ Portable gas detector for LNG ship.
725-101-P2	Eagle 2 for CH4(0~100%LEL)/O2(0~40%)/CO(0~500ppm)/H2S(0~100ppm) /VOC(0~2,000ppm PID).
725-004-02	Eagle 2 for CH4(H2, 0~100%LEL & PPM)/O2(0~40%)/H2S(0~100ppm)/CO(0~500ppm)/CO2(0~10,000ppm)[ possible to setup H2 from CH4 ]. ☞ Portable gas detector for Submarine.
725-004-05	Eagle 2 for CH4(H2, 0~100%LEL & PPM)/O2(0~40%)/H2S(0~100ppm)/CO(0~500ppm)/CO2(0~60%)[ possible to setup H2 from CH4 ].

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

## Order information

### Instrument Accessories.

49-2175RK-02	Battery charger, 100~240VAC, with 4C size NI-MH batteries, Eagle 2.	
80-0101RKE	Floating ball/hose assembly, 25'(7.6cm), with Eagle 2 fitting.	
80-0405RK	Dilution fitting 50:50, for Eagle only( for use with hose & probe)	
81-SDME2-02	Calibration station, model SDM-E2 with AC adaptor, flash drive, USB cable, tubinhg, CD, & Demande flow regulator. Note: Cal. Gas is not included.	
80-0540RK	Sampling hose 40'(12m), polyurethane with 1641 fittings, Eagle	
80-0575RK	Sampling hose 75'(22m), polyurethane with 1641 fittings, Eagle	
80-0599RK	Sampling hose 100'(30m), polyurethane with 1641 fittings, Eagle	
<b>Calibration kit</b>		
81-0154RK-04	Mixed calibration gas, 34L, 2AL cylinder, CH4 50%LEL/O2 12%/CO 50ppm/H2S 25ppm in N2 bal.	 <p>34 AL cylinder     Demand flow regulator for 34AL cylinder.</p>
81-0158RK-04	Mixed calibration gas, 34L, 2AL cylinder, i-C4H10 50%LEL/O2 12%/CO 50ppm/H2S 25ppm in N2 bal.	
81-0151RK-04	H2S 25ppm in N2 bal. 34L, 2AL cylinder.	
81-1132RK	Demand flow regulator for 34AL.	
81-1132RK	Sampling bag(1L)	
81-0018RK-01	i-C4H10 50%LEL in air bal. 7HP.	 <p>7HP &amp; 7ECO cylinder.     713 cylinder regulator.</p>
81-0019RK-01	i-C4H10 10%VOL in N2 bal. 7HP.	
81-0012RK-01	CH4 50%LEL in air bal. 7HP	
81-0011RK-01	CH4 10%VOL in N2 bal. 7HP	
81-0075RK-01	O2 10%VOL in N2 bal. 7HP	
81-0074RK	O2 2%VOL in N2 bal. 7ECO	
81-0078RK-01	N2, 99.999%. 7HP cylinder.	
81-0103RK-04	Isobutylene 100ppm in air. 34L	
81-1050RK	713 cylinder regulator for 7HP & 7ECO cylinder.	



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Authorized Distributor: SMG system Co.,Ltd