MARINE 4™

GAS DETECTION JUST GOT
PERSONAL

A robust and accurate portable gas detector, the Marine 4™ (PS241*) provides unrivaled protection in confined space applications, with audible and visual alarms in the event of exposure to flammable or toxic gases. Detecting and displaying up to 4 gases simultaneously, it is suitable for a host of applications in a variety of industries. The Marine 4™ can be configured to detect a combination of methane, oxygen, carbon monoxide, hydrogen sulphide, as well as other flammable gases.

It has been MED "wheel marked" for use with a simple 1-button operation. The Marine 4™ is supplied with an integral pump with flexibility for pre-entry into deep tanks, holds and void spaces. This makes the Marine 4™ a personal and portable gas detector.

The Marine 4™ has 'crew-safe' fail-safe sensor technology. The detector is robustly constructed and built to last. Crews can also easily change the sensor, saving you service time and money. It detects **all possible combinations** of LEL, O2, CO, H2S, including single gas detection. In addition to displaying all gas readings simultaneously, the user can also initiate a manual bump test **anytime**.

THE BENEFITS
- Simple 1-button operation
- Any combination of LEL/O2/CO/H2S
- Audible, visual and vibrating alarms
- Fully certified
- Internal pump (optional)
- Lightweight
- Sensor integrity checking
- Robust construction
- Ease of maintenance

AUTO BUMP AND CALIBRATION STATION
- Simple user interface
- Full bump, calibration and charging options
- Bump/calibration results storage
- Stand-alone, PC or ethernet options
- Robust construction

(*name provided by manufacturer)

Green / Red Visual Alarms

Audible Alarm

Sample Inlet Nozzle

Charging & Communication Contacts (x4)

On / Off Button

Sensors (x3)

Coloured 'Rubber Boot'

SIZE:	121 x 59 x 32mm (4.8" x 2.3" x 1.3")
WEIGHT:	230g (8oz) with pump 215g (7.6oz) without pump
TEMPERATURE:	20°C to +50°C (-4°F to 122°F)
HUMIDITY:	0 to 95% R.H non-condensing
ALARMS:	Highly visible flashing LED, piercing >90dB audible
DISPLAY:	Green and red LCD backlight display
DATALOGGING:	Timed: 24 hours of limed logs at 1 log per minute Session: Minimum of 180 logs Calibration: Minimum of 8 calibration logs Bump Logs: Minimum of 180 logs
BATTERY:	Lithium Ion rechargeable battery | **Run Time:** Up to 14 hrs (diffusion) | **Charging Time:** < 4 hrs
ENCLOSURE:	High impact rubberized polycarbonate case
DROP TEST:	3m (10ft)
IP RATING:	IP67 (Dust-tight and waterproof to 1m)
RESPONSE TIMES:	LEL = 10 secs (IEC 60079-29-1) O2 = 12 secs (BSEN 50 104) CO < 20 secs H2S < 20 secs
APPROVALS:	IEC Ex ia d IIC T4 Gb ATEX Ex ll 2 G Ex ia d IIC T4 CSA Class 1 Div 1 Groups A, B, C, D, T4 Class 1, Zone 1 EX ia d IIC T4 MED Approved (0038) - Module B & E CE0518
WARRANTY:	2 years as standard
ACCESSORY PACK:	The Marine4™ accessory pack includes the following as standard: USB Charging / Comms Clip, Universal Power Plug, User CD-ROM and Quick Operating Instructions. Tubing (3m) complete with a Quick Connector is also supplied as standard with pumped instruments.

SENSOR SPECIFICATION

GAS	RANGES	INCREMENTS	SENSOR TYPE
LEL	0-100% LEL	1% LEL	Catalytic Bead
O$_2$	0-25%	0.1%	Electrochemical
CO	0-1000 ppm	1 ppm	Electrochemical
H$_2$S	0-9.9 ppm 10-100 ppm	0.1 ppm 1 ppm	Electrochemical