GAS DETECTION & CONFINED SPACE · PREMIUM & SPECIALISED (HSE-MANDATED)

Bump-Test & Calibration Stations

Bump-test and calibration stations are docking units and calibration gas kits that verify a gas detector's sensors and alarms respond correctly, adjust its accuracy against certified gas mixtures and record the result for compliance.

TECHNICAL SPECIFICATIONS	
Calibration gas standard	Traceable to NIST / ISO 17025 lab; certificate of analysis supplied per cylinder
Typical 4-gas mixture	2.5 % CH4 (50 % LEL), 18 % O2, 100 ppm CO, 25 ppm H2S, balance N2
Typical single-gas	25 ppm H2S; 100 ppm CO; 10 ppm SO2; 50 ppm NH3; 20.9 % O2 zero air
Cylinder sizes	34 L, 58 L, 103 L (non-refillable aluminium)
Regulators	0.5 L/min fixed flow; demand flow for pumped detectors; C10 thread
Station types	Single-bay dock; multi-bay 4 to 10 units; portable field dock
Shelf life of gas	Typically 12–36 months depending on mixture (H2S and Cl2 shorter)
Hazardous-area use	Stations for safe-area use only; field calibration with portable kits
Packaging	Cylinders singly or cartons of 4–6; stations individually boxed

Key features

- Automatic docking stations bump test, calibrate, charge and log Honeywell BW, Dräger, MSA and Industrial Scientific detectors
- Certified quad-gas mixtures (CH4 or pentane, O2, CO, H2S) in 34 L, 58 L and 103 L aluminium cylinders
- Single-gas H2S, CO, SO2, NH3, Cl2 and zero-air cylinders for specialist sensors
- Fixed-flow 0.5 L/min and demand-flow regulators compatible with C10 cylinder threads
- Data output to PC or cloud fleet-management software with exportable compliance records
- Multi-bay stations test up to 10 detectors at once for shift-start throughput on large sites

Variants available

- Single-bay docking station with charger
- Multi-bay (4, 6 or 10) docking system with gas manifold
- Portable manual calibration kit: 58 L quad-gas, regulator, tubing, cap
- 34 L 25 ppm H2S single-gas cylinder with regulator
- 103 L quad-gas cylinder for high-throughput sites
- Zero-air and fresh-air calibration cylinders

TYPICAL APPLICATIONS	
Oil & gas	shift-start bump testing of entry teams on ADNOC and Saudi Aramco plants
Petrochemical	turnaround detector fleets of several hundred units in Ruwais, Jubail and Yanbu
Water & wastewater	municipal sewer entry crews for Dubai Municipality and ADSSC
Construction	tunnelling and deep-excavation contractors with authorised gas testers
Industrial	refinery and power-plant maintenance workshops and tool cribs
Marine & logistics	port, tanker and warehouse gas-testing stations

COMPLIANCE, BRANDS AND SELECTION

Compliance (UAE / GCC)

Gas detector manufacturers and GCC operators typically require a bump test before each day's use and a full calibration at least every 180 days; some ADNOC and Saudi Aramco contracts specify monthly calibration. Calibration gas must be within its expiry date and traceable to a national standard, with the certificate of analysis retained. Docking stations are the normal way to evidence these checks for OSHAD, Dubai Municipality and Aramco CSM audits.

Brands we supply

Honeywell BW, Dräger, MSA, Industrial Scientific, Crowcon, Calgaz

How to choose

1. Match the calibration gas to the detector's LEL calibration gas (methane or pentane) and sensor set
2. Choose multi-bay docking for fleets above 20 detectors; portable kits for remote or field crews
3. Size cylinders to consumption: 103 L lasts longer per cylinder but check expiry versus usage rate
4. Use demand-flow regulators for pumped detectors and fixed-flow for diffusion units and docks

Request a quotation
Send quantity, sizes and delivery location. We reply with an itemised quotation and certificates within one working day.
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Product page: albarakaservices.com/products/safety-products/bump-test-calibration-stations/

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