

DIVEAIR 2 TECHNICAL SPECIFICATION

POWER SUPPLY

Battery type	Rechargeable Nickel Metal Hydride battery pack containing six 4AH cells (not user replaceable)
Battery life	Typical use 10 hours from fully charged
Battery lifetime	Up to 1000 charge/discharge cycles
Battery charger	Separate intelligent 2A battery charger powered by mains supply (100–240V 47-63Hz)
Charge time	Approximately 3 hours from complete discharge
Memory back up battery	NiMH for data retention

GAS RANGES

Gases Measured	CO ₂	By dual wavelength infra-red cell
	VOC	Photoionisation detector
	O ₂	By internal electrochemical cell
	CO	By internal electrochemical cell
Range	CO	0-50 ppm
	CO ₂	0-5000 ppm
	O ₂	0-21% Calibrated. Will read 0-100%
	VOC	0-20ppm isobutylene equivalent
Typical accuracy (measured over temperature range within 8 hours of calibration)	Gas	
	CO	±20% of reading or ±3ppm – whichever is greater
	CO ₂	±20% of reading or ±250ppm – whichever is greater
	O ₂	±4% of reading or ±1% by volume – whichever is greater
Response time, T⁹⁰	CO	≤20 seconds
	CO ₂	Approx 60 seconds
	O ₂	Approx 40 seconds
	VOC	≤40 seconds

FACILITIES

Communications	RS232 protocol
Calibration frequency	Return to manufacturer for full service and calibration – 18 month interval
VOC monitoring	The Diveair will detect all VOC's with an ionisation potential less than 10.6eV
Available memory	600 data sets can be stored

PUMP

Flow	350cc/min typically
Vacuum	Maximum 400 mbar
Type	DC motor, Diaphragm

ENVIRONMENTAL CONDITIONS

Operating temperature range	0°C - 50°C
Relative humidity	0 - 95% non condensing (ambient)
Case seal	IP55

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PHYSICAL	
Weight	2.8 Kg
Size	Height 240mm Width 270mm Depth 125mm
Case Material	Polypropylene
Keys	Membrane panel
Display	<ul style="list-style-type: none"> • Liquid crystal display, 120 x 32 pixels • Built in temperature compensation • Fibre optic woven back-light for low light conditions
Filters	Inlet – Dust filter (operator changeable) Internal – 0.2µm PTFE hydrophobic filter (non field changeable) proprietary VOC filter (non field changeable)

Due to Geotech's continuous programme of improvement, this specification is subject to change without prior notice.