



# AIRQUAL-1

## Breathing Air Quality Test Kit



The AIRQUAL-1 Breathing Air Quality Test Kit is designed to provide stand-alone compliance of BS EN12021 legislation.

This comprehensive breathing air quality test kit is compact, easy to operate and can be used to indicate the level of contamination, as well as, operating flow, temperature and pressure.

### On-The-Spot Measurement, Instant Results

Sampling of compressed air is fast, with the ability to process results in less than minutes. Concentrations of carbon monoxide, carbon dioxide, oxygen, water vapour and oil mist can be determined almost instantly without further lab analysis.

### Free From Power - Works Anywhere!

With everything you need contained in one convenient, lightweight aluminium case and free from power, the AIRQUAL-1 is suitable for a variety of applications.

In addition to the detection of the compressed air contaminants listed, AIRQUAL-1 also features an oxygen analyser allowing for constant real-time display of the oxygen content within the compressed air system.

“The AIRQUAL-1 is fast becoming a popular breathing air quality kit for testing compressed air”

### Gases analysed



### KEY BENEFITS

- Designed for compliance with BS EN12021
- No external power source required
- Rugged design - Housed in a protective aluminium casing
- Lightweight – Only 7kg

# Technical Specification

## GENERAL

- Rated up to 10 bar g
- Two year warranty on Protege ZM
- Customer adjustable flow rates

## KIT CONTENTS

- Calibration flow meters
- 1/4" Female BSP connection
- Stopwatch
- Tube breaker & receptacle
- 4 packs of Airtec tubes (CO, CO<sub>2</sub>, H<sub>2</sub>O and Oil Mist)
- O<sub>2</sub> Gas detector

## PERFORMANCE

- Maximum inlet pressure: 10 bar g (145 PSI)
- Analysis operating pressure: 1 bar g (14.5 PSI)
- Maximum inlet temperature: 40°C (104°F)
- Minimum inlet temperature: 5°C (59°F)
- Air flow rate range at outlet: 100 - 5000 cc/min

## BS EN12021 APPROVAL

- Oxygen: 21% (+/-1%)
- Carbon Dioxide: Not More Than 500ppm
- Carbon Monoxide: Not More Than 5ppm
- Oil Mist/Vapour: Not More Than 0.5mg/m<sup>3</sup>
- Odour/Taste: Without Significant Odour/Taste
- Water (Liquid): Air for compressed air line breathing apparatus shall have a dew point sufficiently low to prevent condensation & freezing. Where apparatus is used and stored at a known temperature pressure dew point shall be at least 5°C below the likely lowest temperature. Where conditions of usage and storage of the air is not known the pressure dew point shall not exceed -11°C.

## PHYSICAL

- Dimensions: 390mm (L) x 290mm (W) x 160mm (H)
- Weight: 7kg
- Hose connections: 1/4" BSP Female

Measured Gas / Vapour	Part Number	Range	Sample Time (minutes)	Flow ml/min	Price
Carbon Monoxide	GAS1A	5-50ppm	3	100	£36.95
Carbon Dioxide	GAS2A	250-3000ppm	5	100	£36.95
Water Vapour	GAS6AH	500-5000ppm	1	300	£36.95
Water Vapour	GAS6A	30-80mg/m <sup>3</sup>	5	100	£36.95
Water Vapour	GAS6AG	150-3000mg/m <sup>3</sup>	1	300	£36.95
Oil Mist	GAS109A	0.3-1.5mg/m <sup>3</sup>	60	1000	£36.95
Oil Mist	GAS109AD	0.2-5.0mg/m <sup>3</sup>	20	1000	£36.95
Oxygen	2025939	0 - 30%	n/a	50	£121.00