

Breath alcohol measurement and engine interlock calibration gases



Air Products is a leading global manufacturer of calibration and test gas mixtures.

We supply to a diverse range of markets across the world, including personal and portable gas detection and the breath alcohol test markets.

Air Products offers a full range of ethanol gas mixtures to meet the requirements of the breath alcohol measurement and engine interlock markets. Our mixtures are manufactured to the highest standards, and compatible with all of the major manufacturers brands of both hand-held units and engine interlocks, including Drager, Lion, Intoximeter and Alcolock Countermeasure Systems (ACS).

Calibration gas mixture values

Air Products is capable of supplying any ethanol concentration to re-calibrate your equipment, the five most commonly found (dependent upon manufacturer) are:

Ethanol (C ₂ H ₆ O) gas concentration (ppm), balance of nitrogen	Legal alcohol limit value (µg) of ethanol / 100ml nitrogen
50	9
120	22
192	35
200*	N/A
260*	N/A

* Typically used on equipment requiring electronic interpolation to calibrate sensors.

Canister specification and dimensions

A full range of canisters are available to suit individual requirements, from low volume calibration aerosols, through to larger 110L canisters.

Canister type	Height (mm)	Diameter (mm)	Weight (g)	Connection	Shelf life (months)
Aerosol	265	73	108	Aerosol	6
34L	283	74	474	5/8" 18 UNF	36
110L	358	90	1160	5/8" 18 UNF	36

Accessories

Air Products has a comprehensive range of regulators to assist with the easy calibration of both portable and engine interlock units. Those most commonly used are shown below.



Trigger regulator

- Available with a choice of unrestricted flow, or pre-set flow rate of 6.0, 1.0, or 0.5L/min
- Simple trigger-press activation to dispense the gas
- Lockable to ON position – enables continual gas flow
- Pressure gauge/canister content indicator
- Features a 4 mm OD straight connection
- Solid fixed insertion tube—can be directly located into the calibration orifice of the breathalyser unit
- Allows both units to be held safely and securely whilst calibrating.



Push button regulator

- Easy to use push button unit
- Gas flow of 0.5L/min
- Integrated pressure gauge/canister content indicator
- Supplied with a breath alcohol adaptor
- Suitable for use with 34L and 110L canisters with a C10 connection



Breath alcohol adaptor

- Aerosol head adaptor
- Fixed flow rate of 1.0L/min
- Suitable for use with aerosol canisters

For more information please contact Air Products' dedicated Special Gases and Mixtures team

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