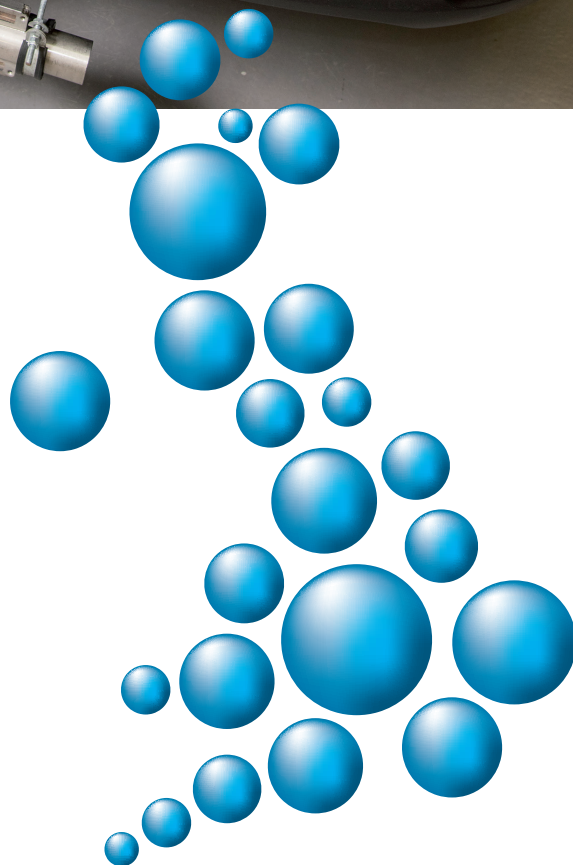# Portable Emissions Measurement Systems

Since the 'defeat device' scandal, regulators have pushed hard to tighten legislation and testing regimes for engine emissions.

The EU RDE regulations - Real World Driving - have come into force and engine manufacturers and testhouses are obliged to conduct more real world tests.

These on-road tests require on-board systems to analyse the emissions, hence the need for Portable Emissions Measurement Systems (PEMS).

At Air Liquide we have discussed with you what is required and developed two, off the shelf, standard PEMS calibration gases. Both mixtures available in 5 or 10 litre cylinders and with an accuracy of +/-1%:

Product Name	Component				
	CO_2%	CO%	NO %	C_3H_8 %	N_2
PEMS 1	16	1.5	0.18	0.1	Balance
PEMS 2	17.5	8.5	0.26	0.1	Balance

These calibration standards, along with zero & purge gases, air and FIDs are all readily available in stock, as shown below.

Product Code	Description	Cylinder Size (L)
66354050	16%CO_2 1.5%CO 0.18%NO 0.1%C_3H_8 in N_2	5
66351100	16%CO_2 1.5%CO 0.18%NO 0.1%C_3H_8 in N_2	10
66344050	17.5%CO_2 8.5%CO 0.26%NO 0.1%C_3H_8 in N_2	5
66341100	17.5%CO_2 8.5%CO 0.26%NO 0.1%C_3H_8 in N_2	10
82584050	40% Hydrogen in Helium UHP	5
80024050	Air Low Emission Monitoring	5

We are present in many countries and have a robust supply chain to enable these gases to be shipped to our sites in Europe, available for you to use during your summer or winter testing outside of the UK. We have the shipping knowledge to get the gas where it needs to be, on time.

(Pictures courtesy Horiba Mira)

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www.industry.airliquide.co.uk/specialty-gases

Air Liquide
creative oxygen

The world leader in gases, technologies and services for Industry and Health, Air Liquide is present in 80 countries with approximately 65,000 employees and serves more than 3 million customers and patients.