VANDAGRAPH LTD

DINKIT

Why use a DIN KIT

Flowing gas from a cylinder is very cold whilst the sensor is at ambient temperature so the sensor begins to cool down during measurement and can cause baseline drift. If the flow is too high a back pressure builds up on the sensor and increases the reading. The DINKIT method produces reproducible accurate results every time.

How to use a DIN KIT

The pressure restrictor has a standard metal DIN fitting which can be used directly into a DIN pillar valve or into an A clamp (yoke) with a DIN Female fitting restricting flow. The flow diverter causes turbulence in flow and speeds up the reading.

The pillar valve is opened gently until the gas can just be heard hissing

through the tubing. Close after five seconds. After the reading stabilises (about 10 seconds) open the valve again for 5 seconds as above. The reading should peak and fall back less than 0.5%. If in doubt, this step can be repeated as many times as necessary.

The metal DIN reduces termperature effects. The tubing is added to prevent air being drawn in the Tee outlet and reducing the reading.

NB: The system should be calibrated in air 20.9%. The measured gas should be within 1% of the calculated mixture. If a discrepancy of more than 1% is found, check the analyser in 100% O_2 and air (20.9% O_2).

DO NOT ASSUME THE ANALYSER IS CORRECT

Benefits:

- Zero flow rate at 1 Bar
- Time to observe the reading
- No temperature drift
- Can be used with any analysers with remote sensor or divertor thread

The DIN KIT consists of:

DM22M/TAPER Connector	DIN22F High Pressure Restrictor	A -268 Tee Adaptor
B-50057 Flow-Thru Divertor	VP12 Tubing 30cm	VANTC “A” clamp (yoke) optional

Vandagraph Ltd 15 Station Road, Cross Hills Keighley, West Yorkshire, BD20 7DT, UK
Tel: +44 (0)1535 634900 Email: info@vandagraph.co.uk