

# Gas Analysis/Detection

## Orsat Gas Analyser

### Gas Analyser, Orsat

With burette and jacket, stopcock manifold and absorption vessels mounted in a carrying case. All absorption vessels are filled with glass tubes and the 3- and 4-vessel models additionally have one with copper wires included. Overall dimensions 520 x 350 x 150mm. Without chemicals.

### With 2-absorption vessels

For the determination of CO<sub>2</sub> and O<sub>2</sub> in flue gases.

**GA500-20** 50ml burette

### With 3-absorption vessels

For the determination of CO<sub>2</sub>, O<sub>2</sub> and approximate CO in flue gases.

**GA502-30** 100ml burette

### With 4-absorption vessels

For the determination of CO<sub>2</sub>, O<sub>2</sub> and approximate CO in flue gases.

**GA504-30** 100ml burette

### Spares

**GA510-10** Absorption vessel, empty

**GA510-12** Absorption vessel, with glass tubes

**GA510-16** Absorption vessel, with glass tubes and copper wires

**GA510-23** Manifold, 3-stopcock for 2-vessel model

**GA510-28** Burette, 50ml

**GA512-23** Manifold, 4-stopcock for 3 vessel 100ml burette model

**GA512-25** Manifold, 5-stopcock for 4 vessel 100ml burette model

**GA512-28** Burette, 100ml

**GA510-30** Burette jacket only

**GA510-32** Burette jacket with rubber bungs

**GA510-36** U-tube

**AS100-06** Levelling bottle

**BP210-10** Bellows

Gas Absorption Towers and Tubes, straight and U-form, Arnold and Midvale patterns – see AB050 to AB190 in the Absorption section.



## Gas and Vapour Detector System

### KITAGAWA

For measuring pollutants in the atmosphere and flue gases etc. Incorporating a lightweight and portable aspirator pump sampler on which can be mounted a wide range of colour change detector tubes. This simple to use system requires no specialist knowledge and there are no chemical reagents to prepare. The detector chemicals are sealed in tubes and ready for immediate use. A reading can be obtained in a few minutes and therefore many locations can be sampled in a short time. The pump is available on its own or supplied with carrying case and 2 spare rubber inlets, but without detector tubes.

**GD100-15** Aspirator sample syringe only

**GD100-17** Aspirator sample syringe and case

### Detector Tubes

Glass with break-off tip. Further, or less, pumping strokes are required to achieve extended ranges as indicated. Supplied in packs of 10.

| Tubes<br>Cat. No. | Ref.<br>No. | Detector<br>Tube                       | Measuring range            |              | Colour<br>Original | Colour<br>Change |
|-------------------|-------------|--|----------------------------|--------------|--------------------|------------------|
|                   |             |  | Standard                   | Extended     |                    |                  |
| <b>GD105-40</b>   | 105SC       | Ammonia                                | 5 to 130ppm                | 10 to 260ppm | Pale purple        | Pale yellow      |
| <b>GD107-15</b>   | 126SA       | Carbon dioxide                         | 0.2 to 5.2%                | 0.1 to 2.6%  | Purple blue        | Pale pink        |
| <b>GD107-28</b>   | 126SH       | Carbon dioxide                         | 1 to 28%                   | —            | Pink               | Yellow           |
| <b>GD109-27</b>   | 1065C       | Carbon monoxide                        | 1 to 50ppm                 | —            | Orange             | Reddish purple   |
| <b>GD110-30</b>   | 109SB       | Chlorine                               | 0.125 to 2.5ppm            | 0.5 to 10ppm | White              | Pale orange      |
| <b>GD110-40</b>   | 232SA       | Ethylene glycol                        | 20 to 250mg/m <sup>3</sup> | —            | Pink               | Yellow           |
| <b>GD110-50</b>   | 171SA       | Formaldehyde                           | 20 to 1500ppm              | —            | Yellow             | Pink             |
| <b>GD113-20</b>   | 187S        | General hydrocarbons                   | 50 to 1400ppm              | —            | Orange             | Yellowish green  |
| <b>GD114-28</b>   | 1205B       | Hydrogen sulphide                      | 0.75 to 37.5ppm            | 6 to 300ppm  | White              | Dark brown       |
| <b>GD114-31</b>   | 1205C       | Hydrogen sulphide                      | 50 to 1600ppm              | —            | Pale yellow        | Dark blue        |
| <b>GD114-35</b>   | 1205H       | Hydrogen sulphide                      | 0.1 to 4%                  | —            | Pale blue          | Black            |
| <b>GD115-10</b>   | 155U        | Methyl isobutyl ketone                 | 5 to 300ppm                | —            | Yellow             | Pale blue        |
| <b>GD115-30</b>   | 175SH       | Nitrogen oxides (NO +NO <sub>2</sub> ) | 100 to 2500ppm             | —            | White              | Yellow           |
| <b>GD118-20</b>   | 158S        | Styrene                                | 2.5 to 150ppm              | 5 to 300ppm  | White              | Yellow           |
| <b>GD118-50</b>   | 103SD       | Sulphur dioxide                        | 1 to 60ppm                 | —            | Pink               | Yellow           |
| <b>GD119-40</b>   | 134SA       | Trichloroethylene                      | 5 to 150ppm                | 10 to 300ppm | White              | Red              |

Alternative tube ranges and parameters are available - details on request.

