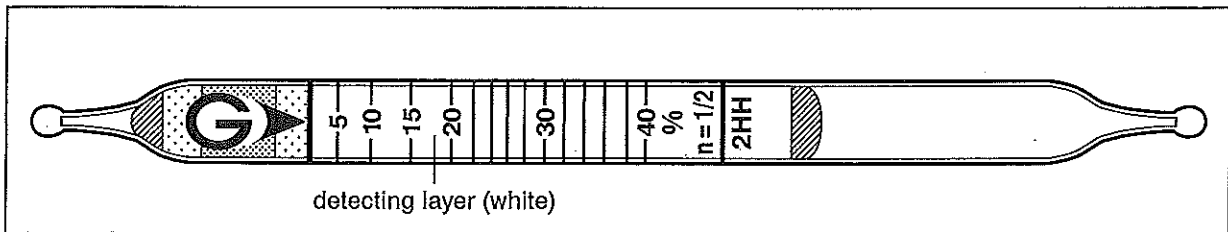


# Carbon Dioxide CO<sub>2</sub>

No.2HH

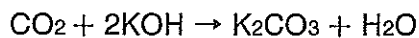


### Performance

Measuring range	2.5 to 5 %	5 to 40 %
Number of pump strokes	1 (100 ml)	1/2 (50 ml)
Correction factor	1/2	1
Sampling time	45 sec	45 sec

Detecting limit : 0.04 % (1 pump stroke)  
 Colour change : Orange → Yellow  
 Corrections for temperature & humidity : Unnecessary  
 Relative standard deviation : 10 % (for 5 to 10 %), 5 % (for 10 to 40 %)  
 Shelf life : 3 years

### Reaction principle



### Possible coexisting substances and their interferences (NOTE : Page 2-5)

Substance	Concentration	Interference	Changes colour by itself to
Ammonia	≦ 8%	No	No
Hydrogen chloride	≦ 3%	No	White (≥ 4000 ppm)
Chlorine	≦ 1%	No	White (≥ 1000 ppm)
Hydrogen sulphide	≦ 1/15	No	Pale yellow (≥ 1200 ppm)
Sulphur dioxide	≦ 2%	No	Pale yellow (≥ 2400 ppm)
Nitrogen dioxide	≦ 1/5	No	Pale yellow (≥ 50 ppm)
Ethanol	≦ 7%	No	Pale yellow (≥ 2 %)
Acetic acid	≦ 2%	No	Pale yellow (≥ 4500 ppm)
Trimethylamine	≦ 10%	No	No
Carbon monoxide		No	No
Nitric oxide		No	No
Ethylene, Propane		No	No

### Calibration gas generation

High pressure gas cylinder method

### Special note

Up to 100 % of carbon dioxide concentrations can be measured by using a Gastec injection type detector tube (No.2HT) which is described on page 3-26.