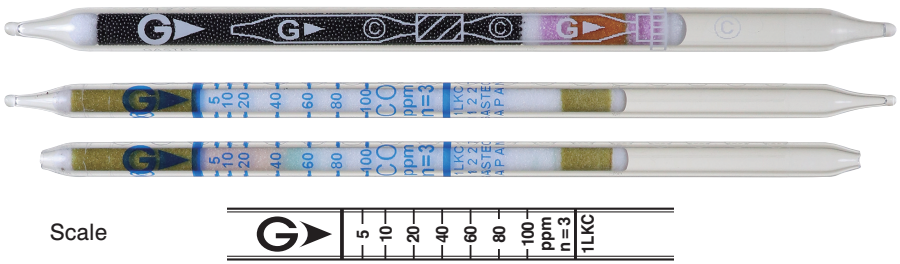
Carbon Monoxide CO

No.1LKC



Scale

When used, these tubes are to be connected.

Performance

Measuring range	5 to 100 ppm
Number of pump strokes	3 (300 mL)
Correction factor	1
Sampling time	6 min

Detecting limit : 2 ppm (3 pump strokes)
Colour change : White → Pale brown/Pale green(may produce dual layers)
Operating conditions : Temperature 0 to 40 °C (32 to 104 °F) correction not used
Relative humidity 0 to 90 % correction not used
Relative standard deviation : 5 % (for 5 to 100 ppm)
Tube quantity and number of tests per box : 10 tubes for 5 tests
Shelf life : 36 months

Reaction principle

$5CO + I_2O_5 + H_2S_2O_7 \rightarrow I_2$

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Hydrogen	< 10 %	− 15 %	No
Paraffinic hydrocarbons C_6 or less (RH0 %)	≦ 15 %	No	Pale brown (> 15 %)
Ethylene (RH0 %)	≦ 2 %	No	Pale brown (≧ 3 %)
Propylene (RH0 %)	≦ 15 %	No	Pale brown (> 15 %)
Acetylene (RH0 %)	≦ 200 ppm	No	Pale brown (≧ 250 ppm)
Carbon dioxide		No	No
Nitrogen oxides		No	
Hydrogen sulphide		No	

When humidity is high, Paraffinic hydrocarbons (C_6 or less), Ethylene, Propylene, or Acetylene may cause interference even if the concentration is lower than the above values.

Calibration gas generation

High pressure gas cylinder method

Special note

This detector tube is suitable for measuring concentrations of carbon monoxide in hydrogen gas.
If the hydrogen concentration is less than 10% the Detector Tube reading will be low.