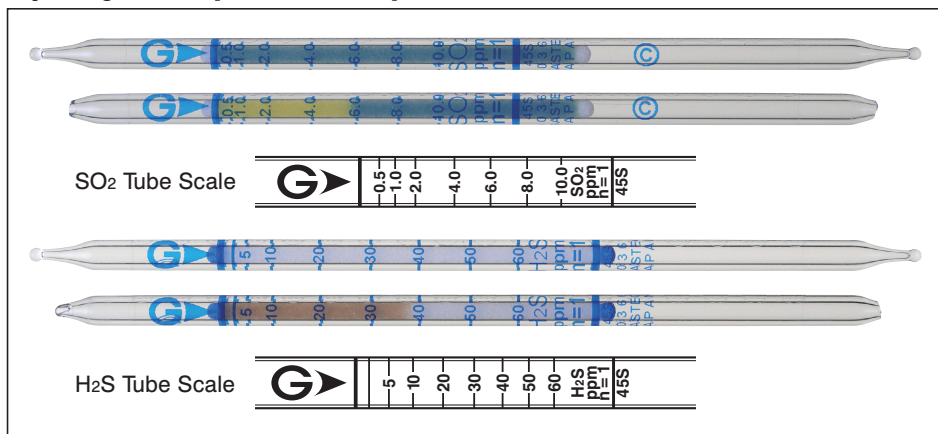


Hydrogen Sulphide & Sulphur Dioxide ^{H₂S & SO₂} (separate quantification) **No.45S**



When used, these tubes are to be connected. See page 2-3.

Performance H₂S tube : The minimum scale value (2.5ppm) is not printed on the tube, but only the scale line is printed.

Detector tube	SO ₂ tube	H ₂ S tube	SO ₂ tube	H ₂ S tube	SO ₂ tube	H ₂ S tube
Measuring range (ppm)	0.25 to 0.5	1.25 to 2.5	0.5 to 10	(2.5) to 60	10 to 20	60 to 120
Number of pump strokes	2 (200 mL)		1 (100 mL)		1/2 (50 mL)	
Correction factor	1/2		1		2	
Sampling time	4 min		2 min		1 min	

Detecting limit : SO₂/H₂S tubes : 0.05 ppm (2 pump strokes)
 Colour change : SO₂ tube : Yellowish green → Yellow
 H₂S tube : White → Brown
 Operating conditions : Temperature 0 to 40 °C (32 to 104 °F) correction not used
 Relative humidity 20 to 80 % correction not used
 Relative standard deviation : SO₂ tube : 10 % (for 0.5 to 2 ppm), 5 % (for 2 to 10 ppm)
 H₂S tube : 10 % (for 2.5 to 20 ppm), 5 % (for 20 to 60 ppm)
 Tube quantity and number of tests per box : 10 tubes for 5 tests
 Shelf life : 36 months

Reaction principle

SO₂ tube : SO₂ + BaCl₂ + H₂O → BaSO₃ + 2HCl HCl + Base → Chloride
 H₂S tube : H₂S + Pb(CH₃COO)₂ → PbS + 2CH₃COOH

Possible coexisting substances and their interferences

SO ₂ tube			
Substance	Concentration	Interference	Changes colour by itself to
Nitrogen dioxide	≥ 5ppm	+	Pale purple
Carbon monoxide, Nitric oxide		No	No
H ₂ S tube			
Substance	Concentration	Interference	Changes colour by itself to
Mercaptans		No	No

Calibration gas generation

Permeation tube method

Special note

When used, connect the SO₂ tube and the H₂S tube (with both ends broken off). This twin tube can measure SO₂ and H₂S simultaneously.