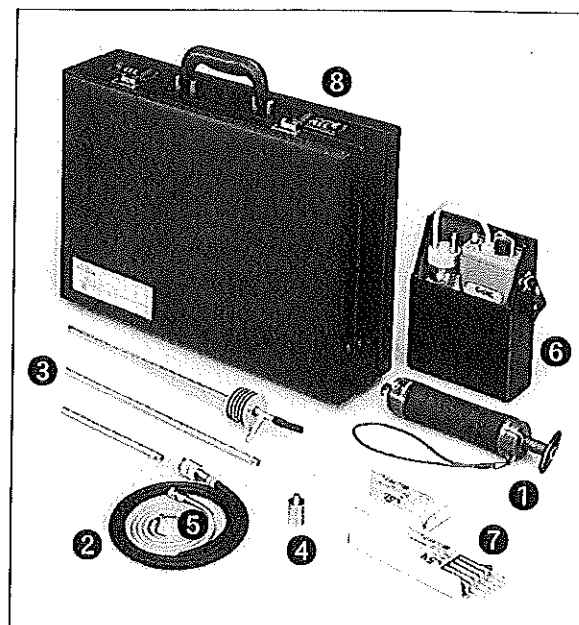


# Smoke and Exhaust Gas Analysis System (Gastec SG System)

The Gastec SG System can analyse smoke and exhaust gases easily and quickly (30 to 60 seconds) at their source. Substances measurable with this system are sulphur oxides (SO<sub>x</sub>), nitrogen oxides (NO<sub>x</sub>), and oxygen (O<sub>2</sub>). This system uses Gastec standard detector tubes, and is available in two kits: the SG-1 kit with detector tubes included and the SG-2 kit is for customers who have already had appropriate Gastec standard detector tubes. For detailed description, see the instruction sheet provided with this system.



## • Features

- Portable in a compact carrying case
- Excellent cost performance

## ■ Gastec SG System configuration

Components	SG-1	SG-2	Remarks
Model GV-100 Gas Sampling Pump (Photo ①)	1	1	With 3 rubber inlets , 1 lubricant
Extension hose (Photo ②)	1	1	1000 mm (39.4in) long
Hot probe set (Photos ③ , ④)	1	1	375 mm (14.7 in, 300 mm (11.8 in) and 150 mm (5.9 in) long probes, and an air filter
Pumping kit (Photos ⑤ , ⑥)	1	1	1000 mm (39.4in) long connecting hose Power: "D" size battery x 2
Detector tubes (Photo ⑦)	5 kinds	None	10 measurements for each kind
Carrying case (Photo ⑧)	1	1	445 mm (W) x 97 mm (D) x 332 mm (H), 4 kg (17.5 in x 3.8 in x 13.1 in, 8.8lbs)
Dimensions & weight (whole kit)			
Instruction sheet	1	1	

## ■ Substance to be measured and Gastec standard detector tubes to be used

Substance	Detector tube No.	Measuring range	Refer to
Sulphur dioxide	5M	20 to 3600 ppm	Page 2-196
	5L	1.25 to 200 ppm	Page 2-197
Nitrogen oxides	11HA	50 to 2500 ppm	Page 2-174
	11S	5 to 625 ppm	Page 2-175
Oxygen	31B	3 to 24%	Page 2-178

## ■ Measurement procedure

Turn on the switch of the motor-driven sampling pump. A hot sample is aspirated through the air filter into the hot probe where the sample is cooled down to the ambient temperature. Break off both ends of the detector tube and con-

nect the tube to the hot probe and the Model GV-100 Gas Sampling Pump. Pull out the handle of the Pump. The cooled sample is aspirated into the detector tube where the concentration of the target substance is measured.

## ■ Gastec SG System assembled (when extension hose used)

