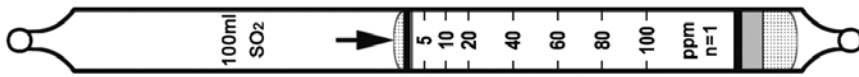


# Sulfur Dioxide SO<sub>2</sub> No. H-10-107-20



	Extended Range	Standard Range	Extended Range
Range (ppmv)	2.5 - 50	5 - 100	10 - 200
No. of Pump Strokes	2	1	0.5
Sample Volume (mL)	200	100	50
Sample Time (min)	2 x 2	2	1.5
Correction Factor	0.5	1	2

**Precision (Relative Standard Deviation)\*:**  $\leq \pm 12\%$

**Linearity with No. of Pump Strokes:**  $r^2 = 0.999$

**Humidity:** No effect 5 - 50% RH; 100% RH reduces the response by about 25%

**Temperature Range:** 0 - 40°C (32 - 104°F)

Temp (°C/°F)	0/32	10/50	25/77	40/104
Corr. Factor	1.2	1.0	1.0	1.0

**Storage Life:** 2 years in darkness at 5 - 25°C (40 - 77°F). Refrigeration preferred.

**Color Change:** Blue → Yellow

**Reaction Principle:**  $\text{SO}_2 + 2\text{NaOH} \rightarrow \text{Na}_2\text{SO}_3 + \text{H}_2\text{O}$  (pH indicator change)

<b>Cross-sensitivity:</b> Substance	Concentration (ppmv)	Apparent Reading*
CO	3000	0
CO <sub>2</sub>	10%	0
NO	100	0
NH <sub>3</sub>	300	0 <sup>#</sup>
CH <sub>4</sub>	25000	0
H <sub>2</sub> S	100	0
Isobutylene	100	0
Hexane	1200	0
Toluene	100	0
Acetone	10000	0

\* Data based on Honeywell pumps and tubes used in standard range.

<sup>#</sup>Reduces reading in mixture.

**Other Possible Interferences:** Acid gases.

DATA SHEETS