

1. PERFORMANCE

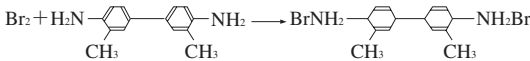
- 1) Measuring range : 1-20 ppm
- Number of pump strokes : 1 (100mℓ)
- 2) Sampling time : 2 minutes/1 pump stroke
- 3) Detectable limit : 0.1 ppm
- 4) Shelf life : 2 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Concentration chart method
- 8) Colour change : White → Orange

2. RELATIVE STANDARD DEVIATION

RSD-low : 10% RSD-mid. : 5% RSD-high : 5%

3. CHEMICAL REACTION

o-Toluidine is oxidized and Orthoquinone is produced.



4. CALIBRATION OF THE TUBE

ABSORPTIOMETRIC METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Nitrogen dioxide FIG.1	Similar stain is produced.		Higher readings are given.
Chlorine FIG.2	∕	1	∕
Chlorine dioxide FIG.3	∕	5	∕

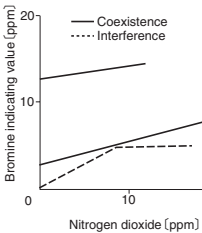


FIG.1 Influence of Nitrogen dioxide

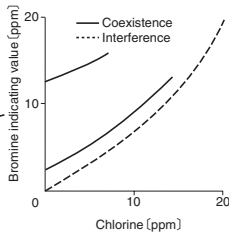


FIG.2 Influence of Chlorine

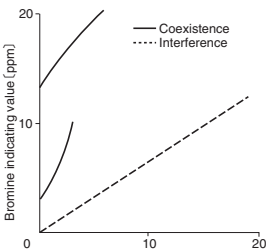


FIG.3 Influence of Chlorine dioxide

TEMPERATURE CORRECTION TABLE

Chart Readings (ppm)	Corrected Concentration (ppm)				
	0 °C (32 °F)	10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)	40 °C (104 °F)
20	32	24	20	17	14
15	22	18	15	12	10
10	15	13	10	8	6
5	9	7	5	4	3
3	6	4	3	2	1.5
1	3	1.5	1	0.8	0.5

