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Gas Detection Tube Data Sheet

Chlorine Dioxide ClO₂ No. 10-130-10

	Extended Range	Standard Range	Extended Range
Range (ppmv)	0.05 - 2	0.25 - 15	0.5-30
No. of Pump Strokes	5	1	0.5
Sample Volume (mL)	500	100	50
Sample Time (min)	5 x 2	2	1
Correction Factor	0.19	1	2.1

Precision (Relative Standard Deviation)*: ≤ ± 20%

Humidity: No effect 10 - 90% RH

Temperature Range: No effect 0 - 40°C (32 - 104°F)

Storage Life: 1 year in darkness at 5 - 25°C (40 - 77°F). Refrigeration preferred.

Color Change: White → Yellow

Reaction Principle: ClO₂ + o-Tolidine → Yellow colored product

<u>Cross-sensitivity:</u> Substance	Concentration (ppmv)	Apparent Reading*
Cl ₂	10	6
NO	25	2
NO ₂	5	11
NH ₃	50000	0
CH ₄	10000	0
HCl	1000	0
H ₂ S	2000	0
CO	500	0
CO ₂	15000	0
Isobutylene	2000	0

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

Other Possible Interferences: Bromine

Caution: Dispose of spent or expired tubes according to local regulations.
Possibly hazardous materials are given under the section Reaction Principle.