

Sensor

ChlordioX™ Plus

New - Unique sensor technology for determining chlorine dioxide, free chlorine and chlorite

The new ChlordioX™ Plus uses patented disposable sensor technology and a unique sequential method to measure Free Chlorine, Chlorine Dioxide and Chlorite across a range of applications including drinking water and produce washing.

The ChlordioX™ Plus features:

- Simple operation for all levels of users
- Wide operating ranges for all parameters
- No interference from sample solids or colour
- Superior analytical performance compared to DPD or Lissamine Green methods



ChlordioX™ Plus

| Parameter | Method |
|------------------|---------------------------------|
| Chlorine Dioxide | Chronoamperometry |
| Free Chlorine | Chronoamperometry |
| Chlorite | Degassing/ chronoamperometry |

| Analysis Time | Range |
|---------------|--|
| < 1 minute | 0.02 – 50 mg/l ClO ₂ |
| < 1 minute | 0.02 – 10 mg/l Cl ₂ |
| < 6 minutes* | 0.02 – 50 mg/l ClO ₂ ⁻ |

* typical degas plus analysis time for 0.5 mg/l ClO₂

Sample temperature 40°C maximum

CS 400 ChlordioX™ Plus

Chlorine and Chlorite

Kit Contents

- ChlordioX Plus instrument
- Degasser assembly including pump
- 200 ChlordioX sensors for Chlorine Dioxide or Chlorite, including calibration chip
- 100 ChloroSense sensors for Free Chlorine, including calibration chip
- Glycine Reagent (25ml)
- CR-1 Reagent (25ml)
- CR-2 Reagent (25ml)
- Sample bottle
- Stirring rods
- Hard carry case

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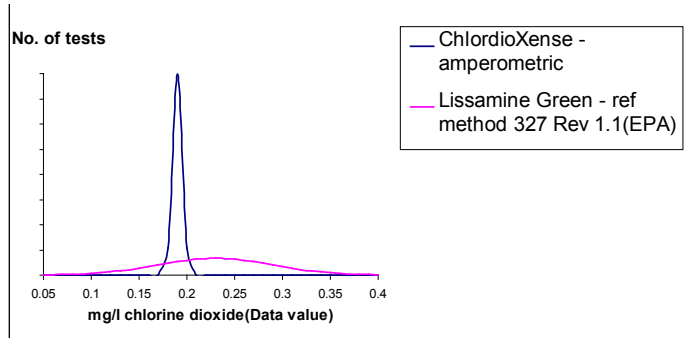
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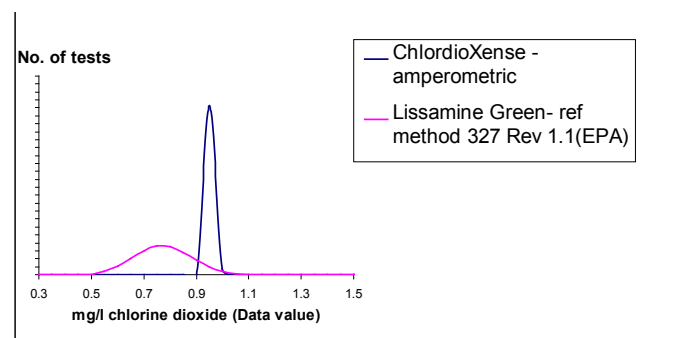
Performance Comparison

Comparative data between the ChlordioXense method and the standard Lissamine Green approach for Chlorine Dioxide clearly demonstrates the far superior performance of the Palintest approach.

Probability Distribution of Chlorine Dioxide results (at 0.20 mg/l) with differing methods

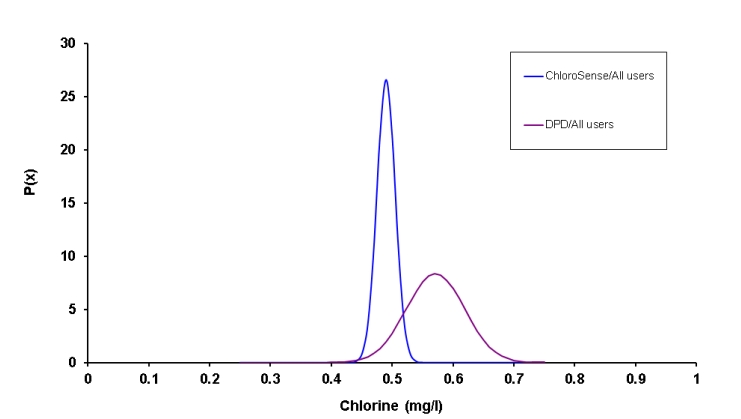


Probability Density of Chlorine Dioxide results (at 0.99 mg/l) with differing methods



The original development of the ChloroSense® demonstrated clearly the improvement in repeatability of Chlorine measurements in the field by completely removing any aspect of technique from the analytical process, a feature intrinsic in the ChlordioX™ Plus.

Probability Distribution of Chlorine results (at 0.50 mg/l) with ChloroSense and DPD



| | | |
|--------------------------|---------------------------|---|
| <p>Cl_2</p> | <p>ClO_2</p> | <p>Cl_2 ClO_2 ClO_2^- ClO_2^-</p> |
| <p>ChloroSense®</p> | <p>ChlordioXense</p> | <p>ChlordioX™ Plus</p> |

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