Pyxis®

www.pyxis-lab.com

DATA SHEET

OXIPOCKET

SP-200 Pocket Oxidizer - Colorimeter

Product Description

The SP-200 OXIPOCKET™ is a unique all-in-one pocket colorimeter specifically designed for measurement of all primary oxidizing biocides and disinfectants commonly used in the municipal, domestic and industrial markets. The SP-200 offers colorimetric testing of oxidizing biocides and disinfectants as well as Ammonia using both Pyxis Lab® and conventional reagents. This handheld replaces the need for independent analyte pocket colorimeters or expensive multi-component colorimeters.

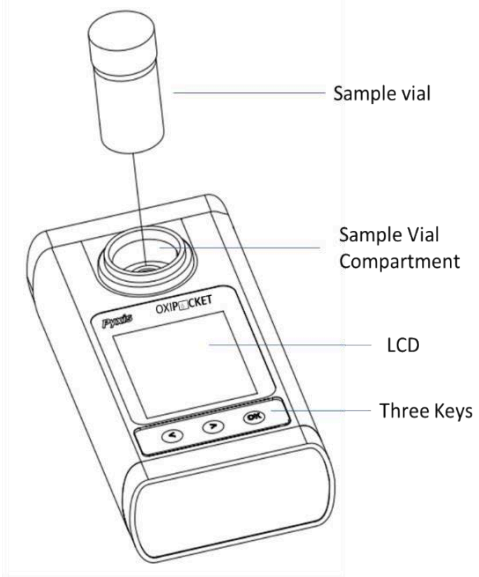
The SP-200 also contains an integrated fluorometer enabling our 'DIRECT-READ' methods for both Chlorine Dioxide and Bleach Concentration in both low and high concentration ranges as mass/mass. This unique development allows users to test direct source samples of both ClO_2 & Bleach concentrate chemical solutions and determine precise concentration without the need for any reagents.

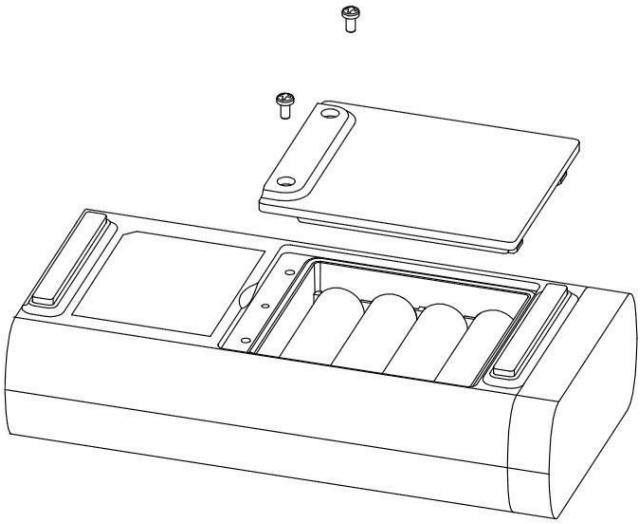
The SP-200 is factory calibrated using ultra-pure solutions of Sodium Hypchlorite & Chlorine Dioxide. Raw material qualities vary globally and as such field calibration may be required by the user to adjust for lower quality raw material used in point of application. This device is Bluetooth® 5.0 enabled for data log transfer, firmware updates and screen customization via the uPyxis® mobile and desktop app.

Features

- Colorimetric Testing of all Conventional Oxidizing Biocides + Disinfectants
- Unique Pyxis Lab® - PAA Peroxyacetic Acid Colorimetric Test Method
- Unique Pyxis Lab® - Chlorine Dioxide Direct Read Test Method (mass/mass)
- Unique Pyxis Lab® - Bleach Concentration Direct Read Test Method (mass/mass)
- Fully Integrated Test Timers with Live Graphical Display of Residual
- Uses both Pyxis Lab® and/or Conventional Powder Pillow Available (Hach® & Others)
- Meets EPA 334.0 - DPD Testing Guidelines for Drinking Water
- DPD Secondary Verification Liquid Standards Available for EPA Regulated Applications
- Data Logging - 30,000 Group Storage
- Bluetooth® Integrated for Wireless Data Log Transfer & Customization

Diagram





Specifications

Item	**SP-200 OXIPOCKET**
Part Number	50802
Absorbance Linearity Range	0–2.0 Abs
Absorbance Reproducibility	±0.005 Abs (0–1.0 Abs)
Colorimetric Wavelengths	365/420/470/525/568/624 nm
Wavelength Accuracy	±1nm
Temperature Range	40–106 °F (4–41 °C)
Humidity	85% at 106 °F (41 °C)
Data Storage	30,000 Group Data Storage, via Bluetooth®
Display	320x240 TFT-LCD, Visible under Direct Sunlight
Power Supply	(4) AA Alkaline Batteries
Typical Battery Life	10,000 Readings
Cuvette/Sample Vial	10mL / 24mm Diameter Cuvette (MA-24)
Dimension (LxWxH)	6.69 x 3.15 x 1.77 inch (170 x 80 x45 mm)
Weight	0.88lbs (400g)
Enclosure Rating	IP67
Regulation	CE / RoHS

Supported Methods

Method Name	Description & Range
Free Chlorine (CL-F)	DPD Method Free Chlorine (0.02–2.2ppm)
Total Chlorine (CL-T)	DPD Method Total Chlorine (0.02–2.2ppm)
Total Bromine (Br-T)	DPD Method Total Bromine (0.04–4.5ppm)
Chlorine Dioxide (CLO2)	DPD Method Chlorine Dioxide (0.04–4.5ppm)
Peroxyacetic (PAA)	Iodimetry Method Peroxyacetic Acid (25.0–500ppm)
Hydrogen Peroxide (H2O2)	Iodimetry Method Hydrogen Peroxide (25.0–400ppm)
Hydrogen Peroxide Low (H2O2-L)	Iodimetry Method Hydrogen Peroxide (0.05–1.5ppm)
Nitrogen Ammonia (NH3S)	Salicylate Method Nitrogen-Ammonia (0.02–0.5ppm)
Bleach (Bleach-L)	Bleach % Low Range Direct Read (0.015–1.0% m/m)
Bleach (Bleach-H)	Bleach % High Range Direct Read (0.50–16.0% m/m)
Ozone (O3)	DPD Method Ozone (0.1–1.0ppm)
Chloramine, Mono (NH2C)	Indophenol Method Monochloramine (0.1–3.0ppm)
Chlorine Dioxide Med (CLO2D)	Chlorine Dioxide Med Range Direct Read (7.3–50ppm)
Chlorine Dioxide High (CLO2H)	Chlorine Dioxide High Range Direct Read (200–1500ppm)
Free Chlorine High (CL2H)	DPD Method Free Chlorine High Range (0.1–10.0ppm)
Total Chlorine High (CL2-TH)	DPD Method Total Chlorine High Range (0.1–10.0ppm)
Free Chlorine Ultra High (CL2UH)	Iodimetry Method Free Chlorine Ultra High (5–400ppm)

Order Information	Part Number
SP-200 OXIPOCKET	50802
10mL Sample Vial	MA-24
25mL Sample Vial	MA-25
Hard Carrying Case	50725
DPD 1.0ppm Chlorine Secondary Standard (125mL)	21039
DPD 2.0ppm Chlorine Secondary Standard (125mL)	21040

Pyxis Lab® Powder Pillow Reagents

Name & Part Number	Description & Quantity
CL-F (31002)	DPD Free Chlorine Pillow - 10mL/100pk
CL-T (31014)	DPD Total Chlorine Pillow - 10mL/100pk
Br-T (31063)	DPD Total Bromine Pillow - 10mL/100pk
CLO2 (31016)	DPD Chlorine Dioxide Pillow - 10mL/100pk
PAA (31079)	Iodimetry PAA Pillow - 10mL/100pk
H2O2 (31117)	Iodimetry H2O2 Pillow - 10mL/100pk
H2O2L (31124)	Iodimetry Low Range H2O2 Pillow - 10mL/100pk
NH3S (31035)	Nitrogen, Ammonia NH3S Pillow Kit - 10mL/100pk
O3 (31118)	DPD Ozone Pillow - 10mL/100pk
NH2C (31036)	Indophenol Monochloramine Pillow - 10mL/100pk
CL2H (31060)	DPD High Range Free Chlorine Pillow - 10mL/100pk
CL2-TH (31060)	DPD High Range Total Chlorine Pillow - 10mL/100pk
CL2UH (31074)	DPD Ultra High Free Chlorine Pillow - 10mL/100pk