



CM5017S SO₂ Coulometer

- No user calibration
- 100% efficient coulometric detection
- Wide, linear dynamic range
- High reliability
- High sensitivity
- Rapid analysis time of 8-10 minutes
- User selectable display units
- 12.1" LCD Touch Screen
- Keyboard for rapid Sample Data entry
- USB Flash Drive Storage
- LIMS Compatible
- User friendly
- Minimum maintenance

CM210-032 – Titration Cell includes:

- | | | |
|---|-----------|---------------------|
| 1 | CM200-051 | Cell w/ side arm |
| 2 | CM119-040 | Anode Top, Teflon |
| 3 | CM101-275 | Detector Electrode |
| 4 | CM190-020 | Cell Inlet Tube |
| 5 | CM190-021 | Cell Outlet Tube |
| 6 | CM101-210 | Platinum Anode |
| 7 | CM101-135 | Platinum Cathode |
| 8 | CM101-213 | Cathode Top, Teflon |
| 9 | CM121-006 | Stir Bar, 1.5" |

CM5017S – SO₂ Coulometer

By Coulometric Detection Only

Instrument used to determine total sulfur, SO₂ and H₂S in a solution with coulometric precision. The CM5017S quantitatively titrates SO₂ and H₂S. Typical applications include the determination of total sulfur (by combustion) and the determination of SO₂ and H₂S (by acid evolution). The coulometer cell is filled with a solution which initially contains a slight excess of free iodine. When SO₂ or other reducing substances enter the cell, iodine is consumed. The amperometric-sensing circuit detects the deficiency of iodine in the solution and causes iodine to be electrically generated at a rate proportional to the sensed deficiency. When all of the substance has been titrated, the iodine is restored to its initial concentration, and the quantity of the titration is read directly on the display in user-selectable units.

Since the coulometric efficiency is 100 percent, sample calibration is not necessary. The linear range and accuracy of the coulometric technique exceeds that obtained by other detection methods.

Part Numbers

CM5017-01 for 110V / 50/60Hz

CM5017-02 for 220V / 50/60Hz

CM310-001 – Cell Reagent Kit includes:

- CM300-026 – Sulfur Anode Solution (4 quarts)
- CM300-027 – Sulfur Cathode Solution (1 quart)

