

# CM5017S



### CM5017S SO<sub>2</sub> 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:

•	0 00 <b>2</b> 1100 0000	
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 – SO<sub>2</sub> Coulometer

## By Coulometric Detection Only

Instrument used to determine total sulfur,  $SO_2$  and  $H_2S$  in a solution with coulometric precision. The CM5017S quantitatively titrates  $SO_2$  and  $H_2S$ . Typical applications include the determination of total sulfur (by combustion) and the determination of  $SO_2$  and  $H_2S$  (by acid evolution). The coulometer cell is filled with a solution which initially contains a slight excess of free iodine. When  $SO_2$  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.

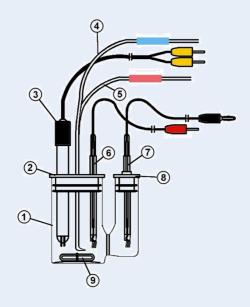
Since the coulometric efficiency is 100 percent, sample calibration is not necessary. The linear range and accuracy of the coulometric technique exceeds that obtained by other detection methods.

### 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)





For more information contact UIC Europe www.uic-europe.com

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