# 22 polymetron

"helping to make a safer world...

## On-Line **SULPHITE** Analyzer

- no filtration and sample preparation
- instant results with continuous performance validation
- manual sample entry system for spot-check analysis
- easy mode of operation

if your application is

- **PULP & PAPER INDUSTRY**
- INDUSTRIAL WASTE WATER EFFLUENT
- WASTE WATER EFFLUENT

your solution is the

## **POLYMETRON Model 8810 SULPHITE Analyzer**

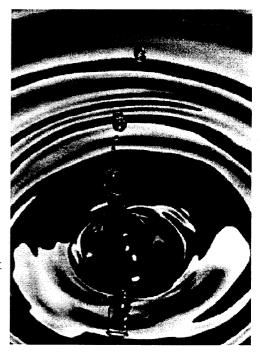
#### THE METHOD

Utilizing the proven ORP Iodometric titration method, the 8810 will perform under severe process conditions reliably and accurately.

After capturing and diluting the sample in ratios from 1:20 up to 1:100, Sulphuric Acid is added to condition the sample.

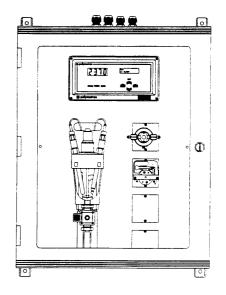
Next the Potassium Iodate solution is injected to react with the Sulphite. This reaction results in the mV potential change, which is detected by the Platinum ORP electrode.

By tracking the mV changes versus the amount of titrant solution consumed, the point of inflection or the endpoint will equal the concentration of SULPHITE.



### **Technical Specifications**

5 / 10 / 50 g/l SO <sub>2</sub> ORP Titration Process calibration 10-20 ml/hr .130° F (555°C) Dication dependent encer Model 8811 2001000 ml .160° F (570°C) 90 psi (0.56 bar) 20 l/hr .10 VAC 5060 Hz .105 psi (57 bar) mA Analog output free relay contacts
2/422 Serial output 4 / 4X or Ex proof
. F



#### System Configuration

l each		Analyzer Model 8810, ORP base unit, 110V - 60Hz
includes:	includes:	Measuring electrode, Platinum
		Reference electrode
		Titrant solution pump, micro piston, for:
		0.01M Potassium Iodate titrant solution
l each	368810.70060	
		10% Sulphuric Acid Conditioning solution
l each	368810.52000	Automatic sample dilution system

#### **OPTIONS**

l each	368810.56000	Automatic chemical cleaning system
I each	368810.60000	Automatic calibration system
l each	368810.65000	Manual sample entry system
I each	359097.00160	Reagent / Calibration solution level sensor
l each	368810.40000	NEMA 4X Fiberglass enclosure, wall mount
l each	368810.45000	NEMA 12 Steel enclosure, floor mount

## zellweger analytics, inc.

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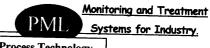
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