2 polymetron

"helping to make a safer world..."

On-Line **CHROME** (cr_{vi}) 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

- **AUTOMOTIVE PRETREATMENT**
- **METAL SURFACE TREATMENT**
- PLATING INDUSTRY

your solution is the

POLYMETRON Model 8810 CHROME Analyzer

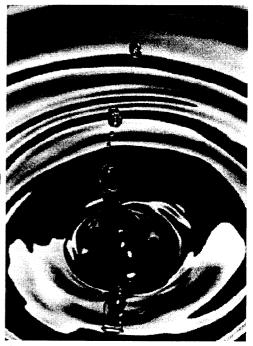
THE METHOD

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

After capturing the sample, a mixture of Potassium lodide and Sulphuric Acid is added to condition the sample and react with Chrome. Next the Sodium Thiosulphate solution is injected to react with the liberated lodine. This reaction results in the mV potential change, which is detected by the Platinum ORP electrode.

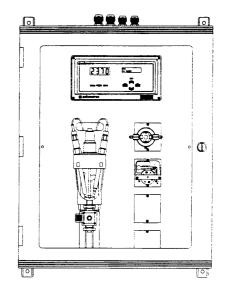
 $I_2 + 2Na_2S_2O_3 \Leftrightarrow 2Nal + Na_2S_4O_6$

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



Technical Specifications

Lower detectable limit: Measuring range: Detection Method: Calibration: Chemical consumption: Operating temperature: Sample frequency: Sample streams: Sample volume/cycle: Sample temperature: Sample pressure: Sample flow rate: Power: Compressed air: Signal output:	0.05 g/l Cr _M / ± 0.01 g/l Cr _M 01 / 2 / 5 / 10 g/l Cr _M ORP Titration Automatic / Manual / Process calibration 10-20 ml/hr 40130° F (555 °C) typically 610/hr up to 25 application dependent 1, up to 6 with sequencer Model 8811 2001000 ml 40160° F (570 °C) 790 psi (0.56 bar) 110/220 VAC 5060 Hz 75105 psi (57 bar) 2 0/420 mA Analog output
Signal output:	
Enclosure rating:	NEMA 12 / 4 / 4X or Ex proof



System Configuration

l each	368810.50116 includes:	
		Reference electrode
		Titrant solution pump, micro piston, for:
		0.01M Sodium Thiosulphate titrant solution
each	368810.70060	Reagent pump, peristaltic, for:
		150g/l Potassium Iodide / 10% Sulphuric Acid Conditioning solution
l each	368810.52000	Automatic sample dilution system

OPTIONS

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

zellweger analytics, inc.

100 Park Avenue League City, Texas 77573 U.S.A.

Tel:

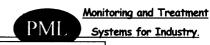
713 / 332 - 2484

Fax:

713 / 554 - 6795

This publication is not intended to form the basis of a contract, and the company reserves the right to amend the design of its instrument without notice.

Your local representative:



Process Technology

pmlprocess.com Tel: (905) 206-9514 Fax: (905) 282-9903

reserves the right to amend the design of its instrument without notice.