22 polymetron

"helping to make a safer world..."

On-Line **CYANIDE** Analyzer

RANGE

- 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

- WASTE WATER EFFLUENT
- **ELECTROPLATING / ETCHING BATHS**
- **GOLD MINING**

your solution is the

POLYMETRON Model 8810 CYANIDE Analyzer

THE METHOD

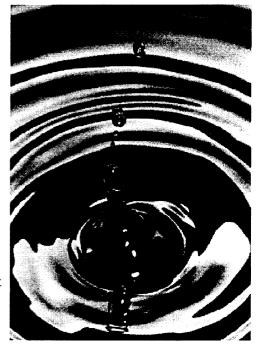
Utilizing the proven silver nitrate titration method, the 8810 will perform under severe process conditions reliably and accurately.

After capturing the sample, a Sodium Hydroxide solution is added to condition the sample pH above pH10. Next the Silver Nitrate solution is injected to react with the free Cyanide.

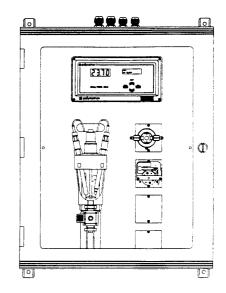
This reaction results in the mV potential change, which is detected by the Silver Sulphide Ion Selective electrode.

 $AgNO_3 + CN \Leftrightarrow Ag(CN) + NO_3$

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



Technical Specifications



System Configuration

l each	368810.54116	Analyzer Model 8810, ORP base unit, 110V - 60Hz
	includes:	Measuring electrode, Silver / Sulphide
		Reference electrode
		Titrant solution pump, micro piston, for:
		0.01M Silver Nitrate titrant solution
l each	368810.70060	Reagent pump, peristaltic, for:
		1.0N Sodium Hydroxide Conditioning solution

OPTIONS

I each	368810.52000	Automatic sample dilution system
l each	368810.56000	Automatic chemical cleaning system
l each	368810.60000	Automatic calibration system
l each	368810.65000	Manual sample entry system
l each	359097.00160	
l each	368810.40000	NEMA 4X Fiberglass enclosure, wall mount
l each	368810.45000	NEMA 12 Steel enclosure, floor mount

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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.

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