27 polymetron

"helping to make a safer world..."

On-Line **UREA** 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

- FERTILIZER MANUFACTURING
- WATER MONITORING
- MUNICIPAL WASTE WATER EFFLUENT

your solution is the

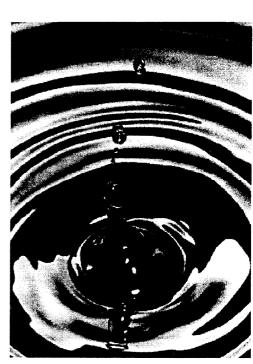
POLYMETRON Model 8810 UREA Analyzer

THE METHOD

Utilizing the proven potentiometric measurement in combination with the dual standard addition calibration, the 8810 will perform under severe process conditions reliably and accurately.

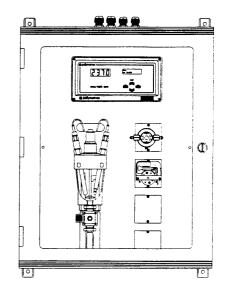
After capturing the sample, a Sodium Hydroxide solution is added to condition the sample pH, followed by the introduction of the Urease solution. The sample now is ready for measurement with the Ammonium Ion Selective Electrode.

Following the measurement the measuring cell is rinsed out and cleaned. An additional chemical cleaning step can be introduced to insure higher analyzer up-time. Finally, to improve the service life of the electrode, the sensor is maintained in a solution of analyzer standard and conditioning reagent between sample measurements.



Technical Specifications

Lower detectable limit:	0.5 mg/l UREA / ± 0.2 mg/l UREA
Measuring range:	010/50/100 mg/I UREA
Detection Method:	Potentiometric Measurement
Calibration:	Automatic / Manual / Process calibration
Chemical consumption:	
Operating temperature:	40130° F (555 °C)
Sample frequency:	typically 6 I O/hr up to 25 application dependent
Sample streams:	
Sample volume/cycle:	2001000 ml
Sample temperature:	40160° F (570°C)
Sample pressure:	790 psi (0.56 bar)
Sample flow rate:	
Power:	110/220 VAC 5060 Hz
Compressed air:	
Signal output:	
-	3 potential free relay contacts
	RS 232/422 Serial output
Enclosure rating:	NEMA 12 / 4 / 4X or Ex proof



System Configuration

l each	368810.36116 includes	Analyzer Model 8810, ISE base unit, 110V - 60Hz Measuring electrode, Ammonia Temperature sensor, Pt100 Reagent pump, peristaltic, for:
l each	368810.70060	3.75M Sodium Hydroxide solution Reagent pump, peristaltic, for:
l each	368810.71060	Urease solution Calibration pump, micro piston, for:
l each	368810.76000	Calibration solution 1000mg/l NH $_3$ Automatic heating device / controller

OPTIONS

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

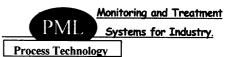
zellweger analytics, inc.

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:



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