UNIPHOS TOTAL CYANIDE ANALYZER





Technical Specifications:

Operating principle	UV digestion with amperometry
Measurement technique	Amperometric detection with three electrode system
Measurement Range	10 – 2000 ppb, 2000-20000 ppb
Reference method	ASTM 7511-09e2
Measurement accuracy	±20 ppb for 10-200 ppb ±10% of reading for ≥200 ppb
Calibration	Single point calibration
Sample injection	Automatic
Sampling interval	30 min
Analysis time	30 min
Operating temperature	20°c to 50°C
Display	HMI full touch screen
Reagents	NaOH, H ₂ SO ₄ , distilled water, Hypophosphorous acid, Sodium Arsenite, Bismuth nitrate
Power	230 V AC/ 60 Hz
Instrument dimensions (H*L*B)	1200 X 400 X 600 mm
Instrument weight	70 kg

7828 Certificate No. IND86004/R1

ISO 9001

BUREAU VERITAS Certification

Due to continuing development we reserve the right to change specifications without prior notice.

Manufactured By: **Uniphos Envirotronic Pvt. Ltd** P.O. Nahuli - 396 108 Tal. Umbergaon, Dist: Valsad, Gujarat, India Tel. : +91(260) 2730156 / 57 / 58 Fax : +91(260) 2730160

Marketing Office: **Uniphos Envirotronic Pvt. Ltd** Readymoney Terrace, 167, Dr. Annie Besant Road, Worli, Mumbai 400 018, India. Tel. : +91(22) 6123 3500 Fax : +91(22) 2493 8826 +91 (22) 2497 8119

gasdetection@uniphos.com www.uniphos-she.com

UNIPHOS TOTAL CYANIDE ANALYZER



S. No.	Features	Advantages
1.	Measures Total Cyanide by UV- digestion with amperometric detection technique according to ASTM Method D7511-09 and OIA 1678.	 Eliminates preliminary 2-hour acid distillation step prior to analysis. Reduces analysis time from hours to minutes. Method is broadly applicable to drinking water, surface water and domestic or industrial wastewater samples. Provides more reliable data than methods employing a preliminary acid distillation step.
2.	Interferences and Total Cyanide Analysis	 Technique has fewer analytical interferences (positive and negative) and consequently supports a lower method detection limit (MDL) and a broader measurement range. Avoid the formation and destruction of cyanide compounds that occur during acid distillation. Performs UV digestion in acidic condition to break down strong metal- cyanide complexes at ambient temperature.
3.	Amperometric Detection	 Amperometric detector has three electrode system which uses non-toxic reagent. Eliminates use of hazardous pyridine, barbutaric acid reagents required in cyanide analysis by spectrophotometric method.
4.	Fully automatic	 Permits overnight operation without any human intervention. Increased sample throughput with decreased direct labour costs. Significantly reduces cost and time per analysis. Very less sample volume which reduces the hazardous/toxic waste.
7.	Compact design with HMI & PLC	 Modular analyzer design occupies minimal bench space and supports easy operation. Reliable and rugged.
8.	Communication	1. RS-232 2. RS485 Modbud-RTU 3. 4-20 mA (As per CPCB/SPCB norms)