



2 line Display

Gas Box



Burner Assembly with Air - Acetylene Flame

Burner Assembly with Nitrous - Acetylene Flame

Attachments



Hydride Generator

APPLICATIONS

In the fields of



Soil Testing







Water



Mines & Geology



Fertilizer



Environmental & Pollution





Oil & Gas



Pharmaceutical







Cement



Research

Pesticide





ELICO°

Connecting Science & Lab

ELICO, the ELICO Monogram, Connecting Science & Lab and all other trademarks, Spectratreats, AquaSpec, Elichrom, and other service marks, unless otherwise noted, are owned or licensed by ELICO Ltd.

All other brand names, product names or trademarks belong to their respective holders.

Specifications are subject to change as a process of continual development.

Copyright © 2013. ELICO Ltd. All rights reserved.

ELICO Ltd

© 2013 ELICO

PRINTED IN INDIA (05/13)

B-90, A.P.I.E., Sanathnagar, Hyderabad 500 018, A.P., India tel +91 40 44451234 fax +91 40 23771639

elico@elico.co

For further information and details on our business, products, operations and innovation, please visit our corporate website www.elico.co

Feedback or Queries related to the product can be sent to us at support@elico.co

www.elico.co/products







ATOMIC ABSORPTION SPECTROPHOTOMETER

SL 168

PRODUCT SPECIFICATION SHEET













Two Hollow Cathode Lamps with independent Power Supply.

Self Diagnosis, Automatic Wavelength Selection and Auto scan for Peak Searching.

Automatic Setting of Parameters by selecting the Element.

SALIENT FEATURES

- Microprocessor based, user friendly, Menu driven with printer interface and optional PC attachment through RS232C interface.
- Narrow Beam Optics fully sealed and Quartz over coated
- Modes of operation include Absorbance, Emission and Concentration.
- Auto saving of all parameters & Auto-Bandwidth Selection.
- Integral Gas Control System with panel Flow Meters.
- Precise Knobs for Vertical, Horizontal and Rotational alignment of Titanium Burner.
- > The Software has facilities to repeat the result of the sample and data treatment.
- Automatic calculation of percentage and ppm in base material.
- Absorbance Mode has the facility to measure sample absorbance for selected number of points and to calculate Mean, SD and RSD.
- Doptional PC Compatibility.
- Microsoft Windows® based software for Data processing, Storage, Retrieval, Interpretation etc.
- > OPTIONAL : Hydride Generator

SOFTWARE FEATURES

Microsoft Windows® based PC operating Software.

- Easy User Interface.
- Linear / Quadratic curve equation to predict the sample concentrations.
- Modes of operation include Absorbance, Emission, Concentration and Standard Addition.
- Saving facility for the scanned Data.
- Print facility for all the scanned Data in Graph and Tabular formats.
- Software is 21 CFR Part 11 compliant with password method protection, Instrument logbook etc.

SPECIFICATIONS

SPECTRAL		PHOTOMETRIC	
Range	185 to 900 nm	Range	0 to 2 Abs
from 0.1	Automatic variable slit	Accuracy	± 0.010 Abs at 1.0 Abs
	from 0.15 to 3.0 nm continuously variable with increment of 0.15 nm	Integration Time	0.04 to 99 sec
Readability	0.1nm	LIGHT SOURCE	
Accuracy	± 0.5 nm	Hollow Cathode Lamps (HCL)	
Repeatability	± 0.2 nm		

MONOCHROMATOR

DETECTOR

Photo Multiplier Tube (PMT)

POWER SUPPLY

Czerney Turner 300 mm with 1200 lines/mm Holographic Diffraction Grating of High Density Hard Coded Optics	

DATA PRESENTATION			
PMT	-200 to -1000 Volts		
HC Lamp	0 to 30 mA modulated		

DATA PRESE	DATA PRESENTATION		
Display	2 Line 24 Characters Dot Matrix Backlit LCD modul		
Hard Copy	On printer (Centronics)		

DATA PROCESSING	
Microprocessor Mode	1. Absorbance 2. Emission 3. Quantitative Curve fit (Linear and Quadratic)
PC Mode	Microsoft Windows® based PC Operating Software with following Operations
	1. Absorbance 2. Concentration (Standard Calibration and Addition), Curve fit Options Linear and Quadratic 3. Emission

FLOW CONTROL

Integral Gas Control System with Panel

FUEL	Acetylene (C ₂ H ₂)
OXIDANT	Air / Nitrous Oxide (N ₂ O)

BURNER

Titanium construction, Premix, Laminar Flow 100mm burner for Air - Acetylene (C₂H₂).

Optional - 50 mm burner for Nitrous Oxide (N₂O)- Acetylene (C₂H₂).

The Spray Chamber is made of Inert Material fitted with adjustable impact bead Aerosol.

NEUBULIZER

Made of fully Inert Material with 90% Platinum and 10% Iridium Alloy Capillary

SAMPLE FEED RATE 3 to 8 ml/min (Adjustable)

SYSTEM UPGRADATION

Size (WxDxH) in mm

Weight (in kg)

PHYSICAL DIMENSIONS

Instrument can be upgraded to Hydride and Cold vapour Generator

700 x 490 x 330

Approx. 50

ACCESSORIES SUPPLIED

230 V \pm 10% AC, 50 Hz, 1 ϕ , 200 VA Max.

th l	Instrument	1

POWER REQUIREMENT

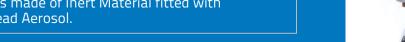
100 mm burner for Air - C₂H₂, Nebulizer with SS Capillary, Oil free Air Compressor with 100% Dustfree Air Filter, Acetylene (C₂H₂) Regulator with Flashback Arrester.

At extra Cost

50 mm burner for N₂O - C₂H₂, Nebulizer with Pt - Ir Capillary, N₂O Regulator, Nitrogen Regulator, HC Lamps for desired Elements, Hydride and Cold vapour Generator, Printer, PC Software, Computer, Exhaust Fumehood Chamber, Servo Controlled Voltage Stabilizer of suitable rating, Acetylene Gas Cylinder, Nitrous Oxide Gas Cylinder and Nitrogen Gas Cylinder.

ACCESSORIES













Air-Acetylene Flame Burner





Nitrous-Acetylene Flame Burne

