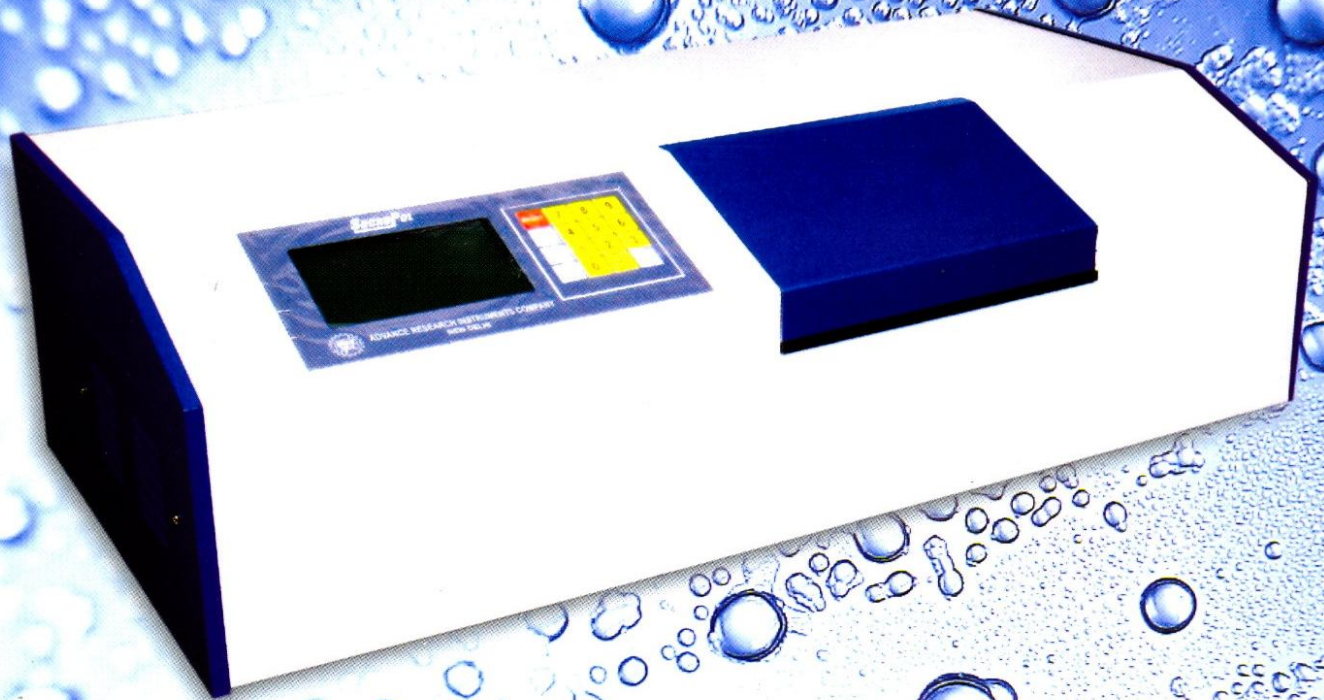


AUTOMATIC DIGITAL POLARIMETER



- Fully Automatic Readout of
 - Optical Rotation
 - Specific Rotation
 - Concentration
 - International Sugar Scale
- Large Multifunctional LCD Display
- Easy Interactive Setup Menu
- RS-232 / USB Output Port
- Automatic Calculation of Average Value and Repeatability Factor



ADVANCE RESEARCH INSTRUMENTS COMPANY

OPTICS & INSTRUMENTATION

AUTOMATIC DIGITAL POLARIMETER

ADVANCE Digital Polarimeter combines the latest in Optoelectronic Technology with over thirty five years of experience in Precision Analytical Instruments to introduce for the first time in India, a locally manufactured, affordable, low cost fully Automatic Digital Polarimeter.

The Polarimeter has all the features required for regular Quality Control, Quality Assurance and Process Control as well as for Research applications. It has all the four scales used in regular investigations namely Angular Rotation, International Sugar Scale, Specific Rotation and Concentration.

It does not require any skilled chemist to operate the instrument. It totally eliminates all confusion in Manual Polarimeters arising due to matching of Shadows & the inherent Eye to Eye variation that always occurs. It totally eliminates chances of all pre-judex readings which might be taken by lab chemist.

The instrument finds application in the Pharmaceutical Industry for measurement of Optical Rotation and Specific Rotation of Amino Acids, Amino Sugars, Analgesics, Antibiotics, Steroids, Vitamins and other Pharmaceutical preparations and also for Pharmacological research of Ayurvedic Medicines.

Another proven application is in Sugar Mills where it is used round the clock, continuously, for measurement of Pol reading. It is useful to monitor the process and plant efficiency at each step of extraction and checks any unknown or unaccounted losses.

In Foodstuffs it is used for measurement of Purity and Concentration in Carbohydrates, Starches, Lactose, Glucose etc.

It finds wide application in Essential Oil and Fragrance industry for inspection of Raw Materials like Sandalwood Oil, Menthol, Eucalyptus Oil, Lemon, Rose Wood Oil, fragrances etc.

In the Chemical Industry it is used in identification and characterization of various Chemicals, Bi-polymers, Natural Polymers etc.

In Agricultural Sector the analysis of Agricultural Antibiotics, Hormones, Microbial Agro-Pharmaceuticals and Agricultural Products can be carried out using Automatic Polarimeters.

The Instrument uses an easily available Sodium Lamp/Tungsten Lamp as light source and all electronics and power supply are built-in the instrument. They are equipped with USB/RS 232 port for computer interfacing.

Model SucroPol is designed for continuous, heavy duty use. It can measure Dark samples which cannot be measured very accurately with POL:PS model. The other added advantage include use of a low cost and readily available Tungsten Lamp and use of additional dust protection filters.

Automatic Polarimeters accept tube lengths of upto 200 mm. Apart from the standard supply of 100 mm and one 200 mm sample tubes, a choice of other sample tubes are available which can be supplied with the instrument as additional accessories.

TECHNICAL SPECIFICATIONS

Specification	SUCROPOL	POL:PS
Angular Scale	$\pm 89^\circ$	$\pm 45^\circ$
Least Count (Angular Scale)	0.001 $^\circ$	0.001 $^\circ$
Repeatability (Angular Scale)	$\pm 0.035^\circ$	$\pm 0.035^\circ$
International Sugar Scale	$\pm 130^\circ Z$	$\pm 120^\circ Z$
Repeatability (ISS)	$\pm 0.1^\circ Z$	$\pm 0.1^\circ Z$
Minimum Transmission	01% (can measure dark samples)	10%
Light Source	Tungsten Lamp with Filter	Sodium Lamp
Computer Connectivity	USB Port	Serial Port
Display	Extra Large Multifunctional LCD Display	LCD Display
Displays	Angular Rotation, Specific Rotation, Concentration, International Sugar Scale	Angular Rotation, Specific Rotation, Concentration, International Sugar Scale
Calculation	Average Value, Repeatability Factor	Average Value, Repeatability Factor
Power Supply	230V, 50 Hz	230V, 50 Hz
Nett Weight	35 kg	30 kg
Gross Weight	45 kg	40 kg



Manufactured by :

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