







Touch Screen Automatic Digital Polarimeter ADP45 & ADP90

The polarimeter is an instrument used for determining the Optical rotation of substances. In this way, the concentration, content, purity, etc of certain substances can be find out. Therefore, the polarimeter has become one of the most useful instruments in laboratories of sugar industry, pharmaceutical industry, oil refining, foodstuff industry, chemical industry, universities and scientific research field.



SALIENT FEATURES

- Touch screen colour display
- Temperature display
- Faraday magneto-optical modulator
- Polarizer Polarizing film
- Digital Polarimeter based on Optical null principle
- No warm-up time is required when instrument is switched on
- Measuring multiple scales specific rotation, optical rotation, sugar degree and concentration
- Automatic repetition-measurement for 6 times, and calculation of average value.
- Measurement of dark-coloured sample
- Insulated Sample chamber to keep sample temp, constant
- User can set retesting sample between 1 to 6
- ♣ Photodiode Detector
- Data display date, time, measuring mode, length of tube, temp. test time, measured value (1 - 6 values), average value,
- Purity method saccharic concentration

Pharmaceutical industry

- Monitoring chemical processes
- Purity control and determination of concentrations
- Characterizations of new synthetic substances
- Hospitals & Pharmacies

Chemical industry

- Purity control and determination of concentrations
- ♣ Analysis of optically-active components (qualitative and quantitative)
- Determination of changes in the configuration
- Monitoring chemical processes

Sugar industry

- Quality control of original and end product
- Determination of fructose and glucose

Food industry

- Determination of concentration
- Purity control
- Quality control

STANDARD ACCESSORIES: Main Instrument, Test Tube 100mm, 200mm, Touch Pen, RS232C Cable, USB Cable, Power cord, Software CD, Test Certificate For ADP90 - Peltier Test Tube 100mm, Test Tube Cleaning brush, Test Tube Accessories, Sample Inject Tube, Syringe with Needle.







Automatic Digital Polarimeter Touch Screen				HSN Code : 90275030	
	MODEL		ADP45	ADP90	
SPECIFICATIONS	Make		LABMAN		
	No. of Measuring Mode (4)	4	Optical Rotation, Specific Rotation, Sugar, Concentration		
	Measuring Mode	otation	Rotation		
	Measuring range	cific Ro	-45° +45°	-90° + 90°	
	Unit	& Spe	Angle°		
	Resolution	Optical & Specific Rotation	0.001°		
	Accuracy	4	±0.01°	±0.004°	
	Measuring Mode		Sugar		
	Range		±120°Z	±259°Z	
	Unit	Sugar	°Z		
	Resolution		0.01°Z	0.001°Z	
	Accuracy		±0.02°Z	±0.004°Z	
	Measuring Mode		Concentration		
	Range	tion	0–99.9g/ml	0-100g/ml	
	Unit	Concentration	g/100 ml		
	Resolution	Con	0.1mg/ml		
) H	Accuracy		±0.5g/100ml		
SPEC	Temperature control		-	Peltier (Built In)	
	Temperature control range		-	10-50° C	
	Accuracy	Peltier	-	±0.1°C & ±0.2°C	
	Constant temp. test tube		-	100 mm	
	Memory		-	5000 data sets	
	Display		8" Colour datamatrix Touch Screen		
	Sample transmittance		> 1%	> 0.1%	
	Light Source		LED (2.4V, 1W, 5000hours)		
	Operation Wavelength	oec.	589.3nm	589.44nm 589.44nm	
	Length of Test Tube	General spec.	100mm & 200mm		
	Power Supply	Ger	Adaptor, Using AC 220V,50/60Hz		
	Interface		USB & RS232C	1W, 5000hours) 589.44nm & 200mm ing AC 220V,50/60Hz USB Ethernet 745 x 410 x 295 **	
	Dimension (LxWxH) mm		850 x 470 x 380	745 x 410 x 295	
	Weight	1	35kg	42kg	