



ADP45, ADP50



ADP75, ADP90

Touch Screen

Automatic Digital Polarimeter

ADP SERIES

Range

Model	Range	Peltier
ADP45	+45°	NA
ADP50		YES
ADP75	+90°	NA
ADP90		YES



E - Catalogue

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 found 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



Automatic Digital Polarimeter Touch Screen

SPECIFICATIONS

MODEL	ADP45	ADP50	ADP75	ADP90
Temperature control	NA	Peltier (Built In)	NA	Peltier (Built In)
Temperature control range	NA	10-50°C	NA	10-50°C
Accuracy	NA	±0.1°C & ±0.2°C	NA	±0.1°C & ±0.2°C
Constant temp. test tube	NA	100mm	NA	100mm
Optical & Specific Rotation				
Measuring range	-45° +45°		-90° +90°	
Unit	Angle°		Angle°	
Resolution	0.001°		0.001°	
Accuracy	±0.01°		±0.004°	
Sugar				
Range	±120°Z		±259°Z	
Unit	°Z		°Z	
Resolution	0.01°Z		0.01°Z	
Accuracy	±0.1°Z		±0.1°Z	
Concentration				
Range	0-99.9g/ml		0-100g/ml	
Unit	g/100 ml		g/100 ml	
Resolution	0.1mg/ml		0.1mg/ml	
Accuracy	±0.5g/100ml		±0.5g/100ml	
Memory	NA		10000 data sets	
Sample transmittance	> 1%		> 0.1%	
Operation Wavelength	589.3nm		589.44nm	
Display	7" Touch Screen		8" Touch Screen	
Interface	USB & RS232C		USB & RS232C	
Dimension (LxWxH)	820 X 510 X 500mm	815 X 510 X 510mm	870 x 520 x 480mm	860 x 520 x 460mm
Gross Weight	37kg	42kg	33kg	34kg
Make	LABMAN			
No. of Measuring Mode	4 (Optical Rotation, Specific Rotation, Sugar, Concentration)			
Light Source	LED			
Length of Test Tube	100mm & 200mm			
Power Supply	AC 220V,50/60Hz			

Optional Accessories : Micro test tube.

★ Specifications are subject to change without notice.

STANDARD ACCESSORIES : Main Instrument, Test Tube 100mm, 200mm, Touch Pen, USB Cable, Power cord, Software Pen drive, Instruction Manual, Test Certificate.

For ADP50 & ADP90 - Additional as Peltier Test Tube 100mm, Test Tube Cleaning brush, Test Tube Accessories , Syringe with Needle.