

Polarimeter ADP610 with 589nm Wavelength and Peltier Temperature Control

Order code: **0507.3761**



Cena bez DPH 20.790,00 Eur

Price with VAT 25.155,90 Eur

Parameters

Range - Angular ($^{\circ}$ A) -355 ... + 355

Quantitative unit ks

Bellingham + Stanley Polarimeter ADP610 with 589nm wavelength and peltier temperature control for measuring optical rotation. Suited for use by scientists wishing to measure chiral compounds and other optically active substances in the chemical, pharmaceutical and food sectors as well as for use in academic research.

- Peltier temperature controlled
- Four decimal place resolution
- Conforms to USP/EP/BP/JP
- RFID user clearance
- High Definition touchscreen

Peltier temperature controlled polarimeter for measuring optical rotation. Suited for use by scientists wishing to measure chiral compounds

and other optically active substances in the chemical, pharmaceutical and food sectors as well as for use in academic research.

ADP600 Series Polarimeters accept standard glass or special low volume leur taper polarimeter tubes facilitating measurement across optical path lengths between 5 and 200m with tube diameters from 3 to 8mm being readable. Optional lids may be easily be fitted to the ADP600 Series Polarimeters, facilitating sample tube entry and exit.

The ADP600 Series Polarimeters have two preset operating temperatures being 20 and 25 °C in accordance with European and United States Pharmacopoeia respectively and other user temperatures between 20 and 30°C may be configured via the instrument user interface.

Peltier technology is intelligently applied to the sample chamber of the new polarimeters so that measurement can be accurately made without the need of an external device such as a waterbath to control sample temperature.

Integral to operational simplicity is the full color, high definition, touch-screen graphical user interface. A menu structure featuring a METHODS system makes for one-touch calibration and instrument configuration; especially where the specific rotation of a number of samples is being analysed over a wide range of concentrations, path lengths, temperatures and wavelengths. A “Mean Method” is also available, allowing a number of readings to be taken from a production batch with the mean being calculated and recorded once the experiment has been completed. The Mean Method is ideal for pharmaceutical applications where compliance with pharmacopoeia is required.

RFID user clearance is also standard in the ADP600 Series Polarimeters. Similar to the ADP440+ Polarimeter, which was the first instrument of its type in the market to offer swipe tag user clearance, the ADP600 Series on-board RFID reader may also be used to feed tube lengths and concentrations to the instrument for recording and in particular, calculation of Specific Rotation.

General Specifications	
Range (°A)	± 89 (-355 to +355 via Method selection)
Resolution (°A)	0.0001
Accuracy (°A)	± 0.003 (@546 & 589nm) / ± 0.005 (@325, 365, 405, 436 & 633nm)
Temperature Range	15-35°C
Temperature Control / Accuracy	Peltier / ± 0.2°C
Temperature Compensation	None, sugar, quartz, user defined
Optical Density Range	0.0 to 3.0 OD
Methods	Specific Rotation, % Concentration, % Invert Sugar, % Inversion (A-B)
Temperature Set Points	20 & 25 °C (variable between 20-30 °C via Method)
Reading Time	15-60 seconds @ 546/589nm and 20/20°C (instrument/sample)
Tube Length	5-200mm
Tube Diameter	3-8mm
User Interface	High Definition 7.4" touch-screen color display
Light Source	UV/Vis lamp (6V, 2A >1000hrs) and narrow band pass filter(s)
Interfaces	4 x USB, 1 x Ethernet, 1 x RS232
Power Supply	100-250V~, 50-60 Hz. <6A.