



## ADP610-HCl Polarimeter

HIGH PERFORMANCE MODEL WITH PELTIER TEMPERATURE CONTROL  
FOR USE WITH VERY AGGRESSIVE SAMPLES

**A specially adapted, high performance single wavelength polarimeter with Peltier temperature control for use with aggressive samples such as hydrochloric acid (HCl).**

As part of the ADP600 series of polarimeters, the ADP610-HCl has been especially adapted for use with aggressive chemicals such as hydrochloric acid. The instrument is supplied with a glass polarimeter tube (100mm) incorporating PEEK endcaps as well as and a temperature sensor with a hastelloy sheath; materials particularly chosen because of their high level of resistance to acid attack. A spill kit to protect the sample chamber is also supplied.



- Four decimal place resolution
- High definition chemical resistant 10cm touchscreen
- Simple Methods system for one-touch instrument configuration
- Hastelloy protected temperature sensor
- 100mm polarimeter tube with PEEK endcaps
- Sample chamber spill kit

# ADP610-HCl Polarimeter FOR USE WITH AGGRESSIVE SAMPLES SUCH AS HCL



## General Specifications

Range (°A)	± 89 (-355 to +355 via Method selection)
Resolution (°A)	0.0001
Accuracy (°A)	± 0.003
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, Purity, % Invert Sugar, % Inversion (A-B)
Temperature Set Points	20 & 25 °C (variable between 20-30 °C via Method)
Reading Time	15-60 seconds @589nm and 20/20°C (instrument/sample)
Tube Length	100mm (PEEK endcaps)
Tube Diameter	8mm
User Interface	High Definition 7.4" (10cm) touchscreen color display
Light Source	UV/Vis lamp (6V, 2A >1000hrs) and narrow band pass filter
Interfaces	3 x USB (A), 1 x USB (B), 1 x Ethernet, 1 x RS232
Power Supply	100-250V~, 50-60 Hz. <6A.

## Order Codes

Code	Description	Wavelength
37-71	ADP610-HCl single wavelength polarimeter supplied with 100mm tube (PEEK endcaps), spill kit, pack of two RFID tags, standard lid, instruction manual and certificate of calibration.	589nm
37-536	Temperature sensor for ADP600-HCl, hastelloy sheath, for use with hydrochloric acid and other aggressive samples.	
35-55	Polarimeter tube, glass, cup fill, PEEK endcaps, 100mm. For use with hydrochloric acid and other aggressive samples using ADP610-HCl Polarimeter.	
35-82	Polarimeter tube windows (qty 4).	
37-531	Chamber spill kit (qty 20).	

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