

ADS620P Saccharimeter

HIGH PRECISION, DUAL-WAVELENGTH, PELTIER TEMPERATURE CONTROLLED MODEL FOR USE IN THE QUALITY CONTROL LABORATORY OF SUGAR MILLS AND REFINERIES

Our dual wavelength ADP620P saccharimeter combines precision optical principles with latest technology to give highly reliable results at sodium and near infrared wavelengths of raw and refined sugars; making it an ideal instrument for use in the quality control laboratory of sugar mills and refineries.



A full color, high definition touch-screen graphical user interface makes operation easy. A simple menu structure featuring a METHOD system similar to the popular RFM series of Peltier controlled refractometers facilitates one-button change of wavelength and rapid configuration of the instrument from ***standard saccharimeter mode*** showing POL values in °Z to a more complex ***sugar purity system*** that calculates and displays Brix, POL, Density & Purity, with Brix being input manually using the touch-screen or directly via Ethernet connection.

Results may be printed or output via USB for saving to a memory stick for transferal to LIMS, whilst calibration with air or water and quartz control plates is a simple operation.

The ADS600 uses standard glass tubes in accordance with ICUMSA. UKAS certified Quartz Control Plates covering the range -30 to + 30 °Z are available.

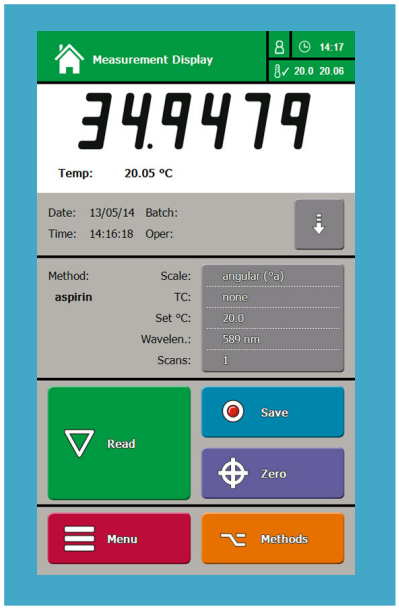
- Dual wavelength
- Three decimal place resolution
- Peltier temperature controlled
- High definition 7.4" touch-screen display
- Simple Method system
- Accepts standard glass tubes up to 200mm
- Integral Sugar Purity software
- Direct input of Brix from RFM via Ethernet

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ADS620P Peltier Controlled Saccharimeter





General Specifications

Range (I.S.S.)	-225 to + 225 °Z
Resolution	0.002 °Z
Accuracy	± 0.01 °Z (@589nm < 1.5 OD & 20 °C)
Precision (Reproducibility)	± 0.007 °Z (@589nm <1.5 OD & 20 °C)
Reading Type	Single-shot (not continuous)
Reading Response Time	30-75 seconds (not including temperature stabilisation time)
Temperature Range (Storage)	15-35°C
Temperature Range (Sample)	5-35 °C
Temperature Control / Range	Peltier / 20 °C (min.) or ±5 °C (of ambient) up to 30 °C (max.) or OFF
Temperature Set Points	20 & 25 °C (variable between 20-30 °C via Method)
Temperature Control Accuracy	± 0.2°C
Temperature Compensation	None, sugar, quartz, user defined
Optical Density Range	0.0 to 3.0 OD
Methods	Rotation (°Z), % Concentration, Purity, % Invert Sugar, % Inversion (A-B)
Tube Length	5-200mm
Tube Diameter	3-8mm
User Interface	High Definition 7.4" touch-screen color display
Light Source	Vis/NIR lamp (6V, 2A >1000hrs) and narrow band pass filter(s)
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
37-72	**ADS620-P** dual wavelength saccharimeter with Peltier temperature control supplied with pack of two RFID tags, standard lids, instruction manual and certificate of calibration.	589 & 880nm
37-511	Spare lamp for ADS600 saccharimeter (Vis/NIR >1000 hours)	
37-510	Spare lamp alignment target	

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