



ADS 220 Automatic Digital Saccharimeter

The ADS 220 is a saccharimeter based around the ADP 220 design but with features that suit the particular requirements of the sugar industry. It has enhanced reading accuracy on the ISS (Z) scale.

The ADS 220 is fully automatic saccharimeter suitable for measuring the optical rotation and purity of sugar solutions. Reading occurs automatically when a sample is placed in the chamber. Stabilisation is rapid. Touch-of-a-button gives mode change, print and zero setting. Calibration (verification) can be performed with a standard such as a quartz plate. Automatic Temperature Compensation can be selected to be sugar or quartz.

The sample chamber will accept tubes of length up to 220 mm. A fixed temperature probe monitors the sample chamber temperature and a second probe is provided for direct insertion into samples. Water-jacketed tubes can be used for precise temperature control and an optional slotted chamber lid can be fitted to accept flow-through tubes.

The ADS 220 software includes a facility to calculate sugar purity, either when operated manually or when coupled to an RFM300 series refractometer via the RS232. The Brix reading from the refractometer along with the rotation and calculated sugar purity are displayed on the ADS 220.

Technical Specification

Part No.	C/P/010002
Scale*	-225° to +225°Z (ISS)
Resolution	0.01°Z
Accuracy	0.03°Z
Light source	LED with interference filter (589 nm)
Beam diameter	Approximately 4 mm through length of chamber
Temperature compensation	Sugar or Quartz or none - selectable
Interfaces	Serial RS232, parallel, temperature probe
Power supply	External 90-250 V ~ 50-60 Hz
Dimensions (packed), mm	550 x 280 x 150 (650 x 410 x 400)
Mass (packed), kg	9.0 (14.5)

*The ADS220 also has a standard angular scale (-85 to +85 °A)

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Accessories

Part No.	Description
C/P/010100	Quartz Control Plate - Quartz control plate calibrated at 97°Z (33° Angular) approx. Supplied with B+S certificate
C/P/010101	Quartz Control Plate - Quartz control plate calibrated at 15°Z (5° Angular) approx. Supplied with B+S certificate
C/P/010104	Polarimeter Tubes - Standard glass tubes from 50 - 200mm (x8 mm id)
C/P/010105	Water jacketed tubes
C/P/010106	Flow-through and funnel tubes (water-jacketed) Customer-specified tubes.