AA-65 Series
Automatic Polarimeters

Specification	AA-65 Angular Scale	AA-65 Sugar Industry Model	AA-65 Analytical Model
Scale	Angular Degrees (°)	I.S.S. (°Z) Temperature Corrected I.S.S. (°Z (TC)) (°Z) x 2 (13g sugar scale) (°Z) x 4 (6.5g sugar scale) Angular degrees (°) °Z (TC) and ° x 2 and x 4	Angular Degrees (°) Specific Rotation Concentration Degrees x user entered factor
Range	Full circle ± 90°	In excess of ±250°Z	Full circle ± 90°
Resolution	0.01°	0.01°Z, 0.01°	0.01°
Repeatability	±0.01°	±0.02°Z, ±0.01°	±0.01°
Reading Time	6 seconds	10 seconds	6 to 8 seconds
Wavelength	589.44nm		
Calibration	Optionally available with UKAS (United Kingdom Accreditation Service) traceable Certificate of Calibration (must be specified at time of ordering)		
Light Source	Tungsten lamp, life in excess of 2000 hours		
Displayed Data	Reading, scale name, temperature, time and date		
Digital Display	Touchscreen, 95 x 64 mm, full colour		
User Access	Keys can be protected by security code to prevent unauthorised access to zeroing, scale or setup keys		
Sample Compartment	Accepts standard polarimeter tubes with 30mm circular ends, maximum path length 200 mm. Optical Activity's full range of sample tubes and cells can be used with the AA-65, including single sample tubes, flow tubes (require slotted sample compartment cover, optional accessory) and TT ThermoTubes (tubes with electronic temperature control)		
Temperature	Range: 0 ⌷ 50°C Resolution 0.1°C On all models: sample compartment temperature probe supplied as standard Optional accessories: 'Dip-in' temperature probe for A1 or G7 (single sample) type tubes End cap with fitted temperature probe for A2 flow tubes (Note: the TT ThermoTubes have their own built-in temperature probe)		
Special Feature	Warning if sample too dark to measure (absorption greater than 97%, OD 1.5)		
Archive	Instrument stores up to 1024 readings		
Outputs	On all models: USB, RS232 Optional accessory: wireless connection		
Data Output	Reading, scale name, temperature, time, date, instrument serial number (user selectable)		
Software	Generates read-only text file, csv file and Microsoft Excel® spreadsheet (provided Excel® installed on the PC		
Power Requirements	86v to 265v ac, 47 Hz to 63 Hz, 14 watts		
Size	460 x 225 x 120 mm (approximate)		
Weight	7.5kg (packed 12 kg) (approximate)		