

# PolAAr 30 / PolAAr 3000

## Series Polarimeters

Specification	PolAAr 30	PolAAr 3000
<b>Scales</b>	Angular degrees, ISS (°Z), temperature corrected ISS	Angular degrees, ISS (°Z), temperature corrected ISS
<b>Range</b>	Full circle, reading to ±90 angular degrees, in excess of ±250°Z	Full circle, reading to ±90 angular degrees, in excess of ±250°Z
<b>Resolution</b>	0.01°, 0.01°Z	0.001°, 0.01°Z
<b>Accuracy</b>	±0.01°, ±0.02°Z	±0.001° (0 to 10°) ±0.01° (10 to 90°) ±0.01°Z (0 to 25°Z) ±0.02°Z (above 25°Z)
<b>Wavelengths</b>	589.44nm <sup>1</sup>	589.44nm <sup>1</sup>
<b>Light Source</b>	20 watt tungsten halogen lamp, typical life 2000 hours	20 watt tungsten halogen lamp, typical life 2000 hours
<b>OD Tolerance</b>	OD 3.0 (ie 99.9% absorbance), warning issued if sample too dark	OD 3.0 (ie 99.9% absorbance), warning issued if sample too dark
<b>Reading Time (continuous mode)</b>	10 seconds	Approximately 10 to 15 seconds
<b>Reading Modes</b>	Continuous	Continuous
<b>Sample Compartment</b>	Accepts standard sample tubes, 30mm diameter collars. Maximum path length 200mm, bores 8mm down to 1.5mm. Ventilated - temperature rise above ambient does not exceed 3°C	Accepts standard sample tubes, 30mm diameter collars. Maximum path length 200mm, bores 8mm down to 1.5mm. Ventilated - temperature rise above ambient does not exceed 3°C
<b>Thermometers</b>	Temperature sensor in sample compartment, socket for alternative sample tube sensor. Sensor range 0-100°C, accuracy ±0.25°C. Digital display resolution 0.1°C	Temperature sensor in sample compartment, socket for alternative sample tube sensor. Sensor range 0-100°C, accuracy ±0.25°C. Digital display resolution 0.1°C
<b>Outputs/inputs</b>	2 x RS232 (25-way D sockets), 1 x remote (9-way D socket)	2 x RS232 (25-way D sockets), 1 x remote (9-way D socket)
<b>Data Output</b>	Rotation reading, units, time and date, polarimeter serial number, wavelength, temperature	Rotation reading, units, time and date, polarimeter serial number, wavelength, temperature
<b>Special Features</b>	-	-
<b>Controls</b>	Power ON/OFF, zero, scale select and print keys	Power ON/OFF, zero, scale select and print keys
<b>Calibration</b>	UKAS calibration certificate available if required	UKAS calibration certificate available if required
<b>Size and Weight</b>	L 515mm, D 380mm, H 198mm, W 15.7kg	L 515mm, D 380mm, H 198mm, W 15.7kg

<sup>1</sup> Other wavelength options available