

### Specification for Polarimeter

Measuring Mode	Optical Rotation, Specific Rotation, Concentration, Sugar Degrees, °Z (ISS)
Measuring Scale	Degrees Arc Optical Rotation
AP Accuracy Option	Accuracy: $\pm 0.004^\circ$ Arc Optical Rotation
Measuring Range	$\pm 89.9^\circ$ Arc Optical Rotation, $\pm 999.99^\circ$ Arc Specific Rotation, 0-99.9% Concentration
Optical Wavelengths	Fixed wavelength :589nm, 546nm (must be upgradable to another 2 wavelength)
Wavelength Selection	Fixed
<b>Prism</b>	<b>Glan Thomson prism with life time warranty</b>
Temperature Control	TempTrol™ Automatic Electric Heating and Cooling 15°- 40°C
Light Source	Tungsten-Halogen
<b>Data Storage</b>	<b>32 GB Non-removable Compact Flash</b>
Communication Interface	3 – USB Ports, 2 – RS232 Ports, Ethernet Port for Network Connection
Calibration	Automatic calibration via touchscreen
<b>Optical Density</b>	<b>Up to 40D for measuring dark samples</b>
Warranty	For one year
Installation	Installation at IIT Madras

#### **Vendor Eligibility Criteria:**

- The same or similar model of the instrument must have been supplied to IIT Madras or other National Institutions such as IITs, IISERs or CSIR Labs.
- AMC must be quoted as optional (after 3 years)
- 21CFR part 11 compliance ready, CE Certificate, or also database for the instrument software must be provided.
- Installation report and previous POs must be supplied.

