Digital Polarimeter CDP - 001

Polarimeter is an instrument used for determining optical rotation of substances. It is also used for measuring specific rotation, concentration & international sugar scale of optically active substances. Polarimeter is ideal for pharmaceutical, food and beverages, sugar, cosmetics, oil refinery, chemical industries & also scientific research studies.

**Features**
- Measures optical rotation, specific rotation, concentration and sugar content.
- Based on Optical Null principle.
- Multiple readings and calculation of average value and standard deviation.
- Measurement of dark samples upto 1% transmittance due to adjustment of high voltage supply to the detector in accordance with the darkness of sample.
- RS-232 interface.
- Large backlite LCD display.
- Various types of sample tubes,
  - Sample tube length : 100 mm or 200 mm
- Software for computer interface (Optional)

**Specifications**
- Light source : Infrared LED
- Wave length : 589.44nm
- Modulator : Faraday magneto optical modular.
- Measuring Range
  - Optical Rotation : -45° ~ +45°
  - International Sugar Scale : -120° ~ +120°
- Accuracy
  - Optical Rotation : ± (0.001° + measuring value x 0.05%)
  - International Sugar Scale : ± (0.03° / 2 + measuring value x 0.05%)%
- Minimum transmittance of sample : 1%
- Power Supply : 230V, ±10% AC, 50/60 Hz
- Dimensions : 600mmx320mmx240mm
- Weight : 30kg

Specifications and Designs are subject to changes for improvement.