



AUTOMATIC POLARIMETER

LPMR-A30

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The automatic polarimeter LPMR-A30 comes with 7 inch TFT touch screen & long-life LED with 589 nm filter as light source instead of traditional limited hours light source for use. With four measurement options like optical rotation, specific rotation, concentration and international sugar content it can determine the concentration of substance, content, purity etc. Equipped with built-in peltier temperature control system ensures accurate readings. Polarimeter is used across sugar, pharmacy, food & chemistry industry.

Features

- ◆ Highly integrated, fully automatic Polarimeter
- ◆ 7 inch TFT touch screen
- ◆ 4 selectable measurement options
- ◆ Long LED life light source, with 589.3 nm filter
- ◆ Built-in Parr (peltier) temperature control system
- ◆ $\pm 89^\circ$ measurement scope for chiral compounds over broad range of concentration
- ◆ Automatic calculations of non-standard test tube measurements
- ◆ Automatic marking for time, date, sample name
- ◆ Easy to operate

Applications

Automatic polarimeter is used in detection of sugar, pharmacy, food, drugs, chemical testing also for detection of starch, agriculture products, amino acids & other materials.

Specifications

| Model No. | LPMR-A30 |
|--------------------------------------|--|
| Measurement mode | Four modes: optical rotation, specific rotation, concentration and international sugar content |
| Calibration mode | Automatic Calibration |
| Measuring Range | $\pm 89.99^{\circ}$, $\pm 259^{\circ}Z$ |
| Minimum reading | 0.001 ^o (optical rotation) |
| Accuracy | $\pm 0.01^{\circ}$ ($-45^{\circ} \leq$ optical rotation $\leq +45^{\circ}$) |
| Repeatability (standard deviations) | 0.002 ^o (optical rotation) |
| Measurable sample min. transmittance | 1% |
| Light source | LED |
| Working wavelength | 589.3 nm |
| Test tube | One 200 mm & One 100 ml |
| Temperature control mode | Built-in semiconductor |
| Temperature control range | 10 to 45 °C |
| Temperature control accuracy | $\pm 0.2^{\circ}C$ |
| Display mode | 7 inch TFT touch screen |
| Data storage capacity | 1000 sets of data |
| Interface | USB, RS232 |
| Power supply | 250 W |
| Power | AC 220V \pm 10% 50 Hz |
| Dimension | 820 × 420 × 440 mm |
| Net weight | 28 kg |
| Gross weight | 32 kg |