Here at last – the product of our uncompromising pursuit of ultimate usability.

- FDA 21 CFR Part 11 Software Included in Standard Delivery
- Measurement stability in 12 seconds
- Resolution of up to 3 decimal places
- Repeatability of ±0.0030° Angle of Rotation and ±0.0090° Z
- Up to 999 automatic consecutive measurements followed by average value display
- Sleep & timer feature to take measurement later at specified time
- Improved usability with the use of touch screen technology
- Connectivity to RX Digital Refractometers for automatic purity measurement

Specifications

<table>
<thead>
<tr>
<th>Measurement accuracy</th>
<th>Angle of Rotation: ±0.005° ( -45.0140 to +45.0140°)</th>
<th>International Sugar Scale: ±0.015°Z ( -130.0000 to +130.0000°Z)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other ranges</td>
<td>Angle of Rotation: ±0.01° ( -18.7020 to +18.7020°)</td>
<td>International Sugar Scale: ±0.07°Z ( -130.0000 to +130.0000°Z)</td>
</tr>
<tr>
<td>Resolution</td>
<td>±0.003° Angle of Rotation and ±0.009°Z up to OD2*2</td>
<td></td>
</tr>
<tr>
<td>Measurement wavelength</td>
<td>589nm: Glan Tayler Prism</td>
<td></td>
</tr>
<tr>
<td>Light source</td>
<td>589nm (D-line)</td>
<td></td>
</tr>
<tr>
<td>LED: 589nm interference filter</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Dimensions

SAC-i 589 / 882

It has become common that dark color - raw sugar samples are measured at 882nm without decolorisation treatment. SAC-i589/582 can measure samples at both 589nm and 882nm by changing the optical unit.
**New Generation Saccharimeter**

**Included software**
- FDA 21 CFR Part 11 Software
- Electronic records and electronic signatures.
- Compliance with 21 CFR Part 11 requirements.

**Accessories**
- **Observation tubes**
  - RE-72052: Unjacketed Flow Tube (Glass) 100mm/9ml
  - RE-72112: Jacketed flow tube 200mm (With water jacket)
  - RE-72111: Jacketed flow tube with funnels 100mm
  - RE-72110: Jacketed flow tube with funnels 50mm
  - RE-72050: Quartz Control Plate –34° (–100°Z)
  - RE-72049: Quartz Control Plate –17° (–50°Z)
  - RE-72045: Quartz Control Plate 34° (100°Z)
  - RE-72044: Quartz Control Plate 17° (50°Z)
  - RE-72043: Quartz Control Plate 8° (25°Z)

**Hardware**
- **Flow cell** (not required) allowing for hassle-free installation of the flow cell attachment.
- **Temperature setting range** 10 to 60°C (water)

**Excepotional Stability & Reliability**
- Increased repeatability: ±0.2°C, PID control method
- PTB traceability: Constructed to meet the requirements of the German PTB standard for new generation instruments.

**User-Friendly Construction**
- **Software for compliance with 21 CFR Part 11 requirements**
- **Automatic Polarimeter / Saccharimeter**

**Touch Screen**
- **Home screen**
  - Choose from a total of 6 options – Mode, wait time, consecutive measurements, measurement method, measurement parameters, and more.

**Measurement screen**
- **Customized measurement methods** can be set up with individual user passwords.
- **Measurement screen with setting sub-window (lower left)**
  - Measurement mode:
    - A.R.
    - A.R.
    - USER
  - Operations, Guaranteed
  - Smooth and Accurate

**Measurement mode screen**
- **Customized measurement methods** can be set up with individual user passwords.
- **Measurement screen with setting sub-window (lower left)**
  - Measurement mode:
    - A.R.
    - A.R.
    - USER
  - Operations, Guaranteed
  - Smooth and Accurate