

# SAC-1<sub>Cat,No,5951</sub> SAC-1589/882 Cat,No,5952

#### **Automatic Polarimeter / Saccharimeter**



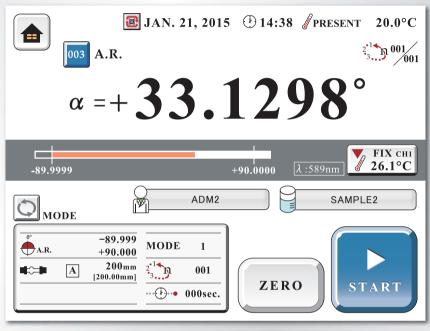
High Performance Sugar Analysis, Now Easier Than Ever.

ICUMSA compliant

FDA 21 CFR Part11 compliant

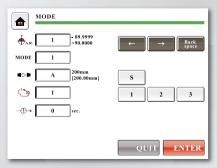
# Smooth and Accurate Operations, Guaranteed

### **Touch Screen**



#### Measurement screen with setting sub-window (lower left)

Basic settings are easily accessible from a sub-window within the main measurement screen. With a touch on the screen, it can switch to display the last 10 measurement history.



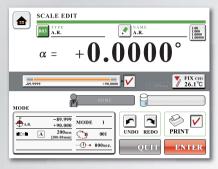
#### Measurement mode screen

Customize measurement methods – mode, wait time, consecutive measurements, temperature, and more.



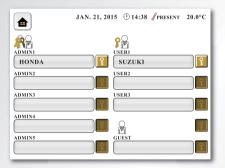
#### History screen

Up to 5,000 each of measurement and zerosetting / calibration data can be stored.



#### Sale edit screen

Edit and save your own scales with ease.



#### High-security protection

Design your ideal data security system with the 4 system levels in combination with 9 individual user passwords.



#### Manual calibration

Correct measurement discrepencies among units within the accuracy specification for consistency across multiple units.

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

- FDA 21 CFR Part 11 Software Included in Standard Delivery NEW
- Measurement stability in 12 seconds (4 seconds in the high-speed & consecutive measurement mode)
- Resolution of up to 4 decimal places
- Repeatability of  $\pm 0.003^{\circ}$  Angle of Rotation and  $\pm 0.0090^{\circ}$ 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

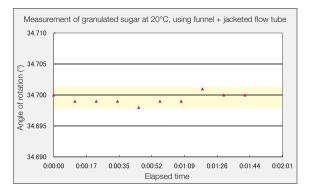




#### **Exceptional Stability & Reliability**

#### Increased repeatability

ATAGO's innovations in technology has made high-stability measurement possible. The repeatability is the best in its class, and sample types that are conventionally difficult to measure can be measured with great repeatability and accuracy.



#### PTB traceability

Manufacturing and calibration is executed with quartz control plates made to the German PTB standards.



#### Approved by CONSECANA

The SAC-i has passed the vigorous approval process by CONSECANA, the group representing ORPLANA, the Brazilian sugarcane growers association.



# User-Friendly Construction



An observation tube length of up to 200mm can be accomodated.



USB ports are easily accessible from the front of the unit.

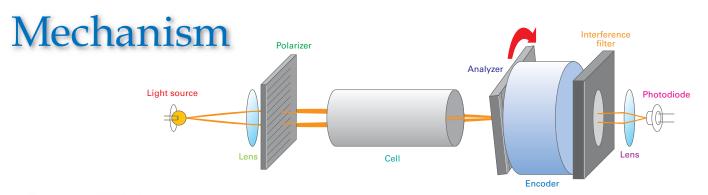
### Hardware

#### Flow cell (sold separately)

The chamber cover opens forward, allowing for hassle-free installation of the flow cell attachment.







## Specifications

#### SAC-i Cat.No.5951

Measurement \* Angle of Rotation: ±0.002° (-5.0000 to +5.0000°)

accuracy

 $\pm 0.005^{\circ}$  (-45.0140 to -5.0001°, +5.0001 to +45.0140°)

International Sugar Scale: ±0.0150°Z (-130.0000 to +130.0000°Z)

Other ranges | Angle of Rotation: ±0.010°

International Sugar Scale: ±0.0300°Z

±0.003° Angle of Rotation and ±0.0090°Z Repeatability 589nm (equivalent to the sodium-D line spectrum) Measurement wavelength

LED: 589nm interference filter Light source unit

#### SAC-i 589/882 Cat.No.5952

Measurement \* accuracy

589nm: Angle of Rotation: ±0.002° (-5.0000 to +5.0000°)

±0.005° (-45.0140 to -5.0001°, +5.0001 to +45.0140°)

International Sugar Scale: ±0.0150°Z (-130.0000 to +130.0000°Z)

Other ranges | Angle of Rotation: ±0.010°

International Sugar Scale: ±0.0300°Z 882nm: Angle of Rotation: ±0.005° (-19.3000 to +19.3000°)

International Sugar Scale: ±0.0150°Z (-130.0000 to +130.0000°Z)

Other ranges Angle of Rotation: ±0.010°

International Sugar Scale: ±0.0700°Z

Polarizer	Glan Taylor Prism
Measurement wavelength	589nm (equivalent to the sodium-D line spectrum) 882nm (near infrared ray)
Light source unit	LED: 589nm interference filter,

882nm interference filter

#### SAC-i series Common Specifications

Measurement Angle of Rotation

Scales International Sugar Scale (without temperature compensation)

International Sugar Scale (with Automatic Temperature Compensation)

Specific Rotation Concentration Purity User scale

Angle of Rotation of Quartz Plate (with Automatic Temperature Compensation)

Temperature (°C/°F)

Measurement Angle of Rotation:-89.9999 to +90.0000° and -360.0000 to +360.0000° range International Sugar Scale: -259.0000 to +259.0000°Z Resolution Angle of Rotation: 0.00019

International Sugar Scale: 0.0001°Z Temperature compensation range 10 to 40°C Temperature display accuracy ±0.2°C Ambient temperature Use the instrument where the temperature is between 10 to 40°C

Display method 7.5-inch color LCD + touch screen Printer output Digital printer DP-AD/DP-63 (sold separately)

Output method: RS-232C (9 pin D-Sub male connector) Data output to USB flash drive CSV text file format

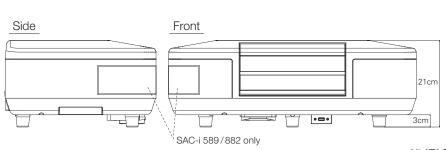
Communication via: USB-Serial Communication with computer Observation tube included Observation tubes (100mm [5ml], 200mm [10ml]) Power supply AC100 to 240V, 50/60 Hz

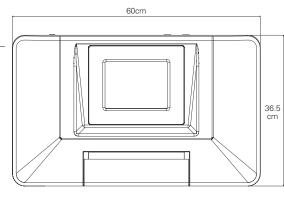
Power consumption 140VA

Top

Dimensions and weight 60×36.5×21cm, 20.0kg (main unit only)

# Dimensions





All ATAGO polarimeters are designed and manufactured in Japan.



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\* Specifications and appearance are subject to change without notice.

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<sup>\*</sup> Checked by reading a standard quartz plate.