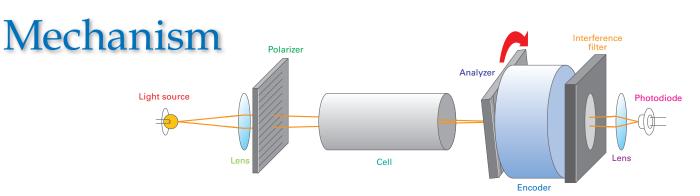
Here at last – the product of our uncompromising pursuit of ultimate usability.

- •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







Specifications

Measurement *1 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

Repeatability *1 +0.003° Angle of Rotation and +0.0090°7 Measurement wavelength 589nm (equivalent to the sodium-D line spectrum) Light source unit LED: 589nm interference filter

SAC-i 589/882 Cat.No.5952

Measurement *1 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,

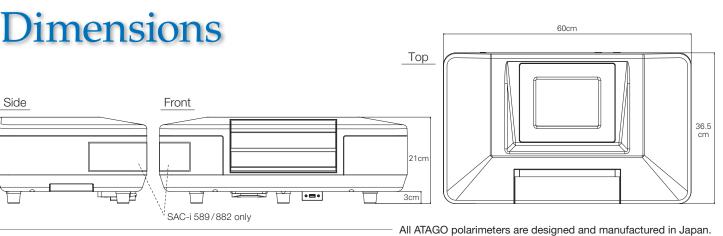
- *1 Checked by reading a standard quartz plate.
- *2 OD = optical density : a measure of light absorbance. OD3 = 1/1000 attenuation and 0.1% transmission.

SAC-i series Common Specifications

Measurement Scales	Angle of Hotation 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 range	Angle of Rotation:-89.9999 to +90.0000° and -360.0000 to +360.0000° International Sugar Scale:-259.0000 to +259.0000°Z
Sensitivity	up to OD3*2
Resolution	Angle of Rotation: 0.0001° 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 with computer	Communication via: USB-Serial
Observation tube included	Observation tubes (100mm [5ml], 200mm [10ml])

AC100 to 240V, 50/60 Hz

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



Power supply

Power consumption 140VA



TEL: 81-3-3431-1943 FAX: 81-3-3431-1945





http://www.atago.net/ overseas@atago.net ATAGO U.S.A., Inc. **E**ATAGO INDIA Instrum ATAGO THAILAND Co.,Ltd. TEL: 66-21948727-9 customerservice@atago-thailand.con ATAGO BRASIL Ltda. TEL: 55 16 3913-8400 ATAGO ITALIA s.r.l. TEL: 39 02 36557267 ATAGO CHINA Guangzhou Co.,Ltd TEL: 86-20-38108256 info@atago-china.com ATAGO RUSSIA Ltd. TEL: 7-812-777-96-96 info@atago-russia.com ATAGO NIGERIA Scientific Co., Ltd.

* Specifications and appearance are subject to change without notice







SAC - 1 Cat.No.5951

SAC-i589/882

Automatic Polarimeter / Saccharimeter



High Performance Sugar Analysis, Now Easier Than Ever.



and 882nm by changing the optical units.

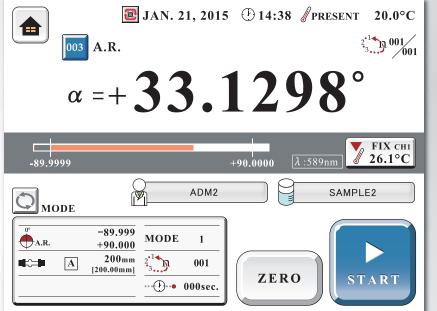
SAC-i 589/882 can measure samples at both 589nm

FDA 21 CFR Part11 compliant



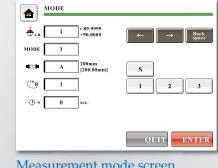
Smooth and Accurate Operations, Guaranteed

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.

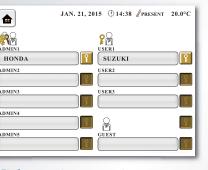
CLEAR QUI

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



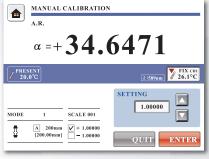
Sale edit screen

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.



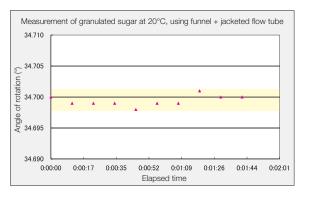
Manual calibration

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

Exceptional Stability & Reliability

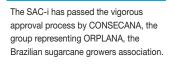
Increased repeatabilit

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 traceabilit

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



pproved by CONSECANA



User-Friendly Construction



An observation tube length of up to

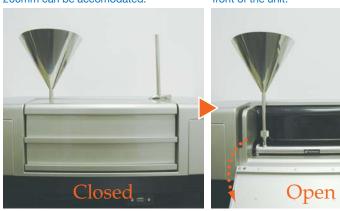


USB ports are easily accessible from th

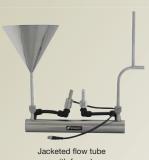
Hardware

Flow cell (sold separately)

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



Accessories



Observation tubes

RE-72080: Observation tube 50mm OT-50(I) (SUS) 2.5ml RE-72078: Observation tube 100mm OT-100(I) (SUS) 5ml RE-72079: Observation tube 200mm OT-200(I) (SUS) 10ml RE-72113: Jacketed flow tube with funnel 100mm

RE-72114: Jacketed flow tube with funnel 200mm RE-72037: Unjacketed flow tube with funnel 100mm RE-72038: Unjacketed flow tube with funnel 200mm

RE-72110 : Jacketed flow tube 50mm (With water jacket)

RE-72111: Jacketed flow tube 100mm (With water jacket)

RE-72112: Jacketed flow tube 200mm

RE-72051: Unjacketed Flow Tube (Glass) 50mm/4.5ml RE-72042: Unjacketed small volume observationtube 10mm long 1ml RE-72052: Unjacketed Flow Tube (Glass) 100mm/9ml

DP-63 Cat.No.3118

Input method: RS-232C Type of printer: Thermal printing Printing data fields : Angle of rotation, International Sugar Scale,

Dimensions and weight: 17×16×7cm.580g (main unit only)

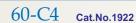
Specific optical rotation, Concentration Purity, Length of sample tube, Measurement temperature, Day, Month, Year and Time Power supply : AC adapte Power consumption: (Input voltage: AC100 to 240V) 13VA

Digital printer DP-AD cat.No.3123

Input method : RS-232C Type of Printer : Dot matrix printing Printing data fields : on rolled plain paper (not thermal) Angle of rotation, International Sugar Scale, Specific optical rotation, Concentration, Purity, length of sample tube, Measurement temperature, Day, Month, Year and Time

Power supply : AC adapter Power consumption : (Input voltage : AC100 to 240V) 7VA Dimensions and weight : 11×18×9cm, 470g (main unit only)

Circulating constant



Tank capacity : 0.5L Temperature setting range Constant-temperature

accuracy: using a thermo-module Flow rate : 4L / min. Power supply : AC100 to 240V 50 / 60Hz Power consumption : 430VA Dimensions and weight : 38×24×27cm, 11.0kg (main unit only)

10 to 60°C (water)

±0.2°C, PID control method

RE-72043 : Quartz Control Plate 8° (25°Z) RE-72044: Quartz Control Plate 17° (50°Z) RE-72045 : Quartz Control Plate 34° (100°Z) RE-72048 : Quartz Control Plate -8° (-25°Z) RE-72049: Quartz Control Plate -17° (-50°Z) BE-72050: Quartz Control Plate -34° (-100°Z)

Quartz control plates



Software for compliance with 21 CFR Part 11 requirements on electronic records and electronic signatures. Cat.No.3167

