

ATAGO® AUTOMATIC REFRACTOMETER

SMART-1™

Wide Brix Range Plus
Three Additional Scales
Preinstalled.



The SMART-1™ is an automatic refractometer that can measure a wide range of samples. Featured pre-programmed scales: Brix, Inverted Sugar, HFCS-42, and HFCS-55.

Applications

- Beverages
- Food
- Sugar syrups, corn syrups
- Pharmaceutical ingredients

Measurement Method



1. Place sample on the surface of the prism.



2. Press and release the START key one time.



3. The measured value is displayed.

Features

- Wide measurement range of 0.00 to 95.00%
- High accuracy of $\pm 0.05\%$
- Automatic Temperature Compensation (ATC) from 5 to 40°C
- 4 pre-installed scales: Brix, inverted sugar, HFCS-55 (High Fructose Corn Syrup) and HFCS-42 (High Fructose Corn Syrup)
- Secondary measurement mode that takes multiple measurements internally and displays a reading once the measurements have stabilized, allowing for hot and cold solutions to be measured with confidence
- 2 data transfer options: printer or computer via RS-232C connection.
- Three-button design (ZERO, START, and SCALE) for simple and efficient operation

Calibration solutions on Page 99

Automatic Refractometer

SMART-1™

Cat.No.3150

Measurement range	Brix 0.00 to 95.00% (ATC = Automatic Temperature Compensation) Inverted sugar concentration 0.00 to 95.00% (ATC) HFCS-55 (High Fructose Corn Syrup) 0.00 to 95.00% (ATC) HFCS-42 (High Fructose Corn Syrup) 0.00 to 95.00% (ATC)
Resolution	Brix 0.01% Inverted sugar concentration 0.01% HFCS-55 (High Fructose Corn Syrup) 0.01% HFCS-42 (High Fructose Corn Syrup) 0.01%
Measurement accuracy	Brix $\pm 0.05\%$ Inverted sugar concentration $\pm 0.05\%$ HFCS-55 (High Fructose Corn Syrup) $\pm 0.05\%$ HFCS-42 (High Fructose Corn Syrup) $\pm 0.05\%$
Measurement temperature	5.00 to 40.00°C
Printer	Printer and PC (via RS-232C)
International protection class	IP64 (Excluding AC adapter)
Power supply	AC adapter (AC100 to 240V, 50/60Hz)
Power consumption	15VA
Dimensions and weight	12x27x4cm, 2.0kg (main unit) 10.5x17.5x4cm, 0.7kg (AC adapter)

Optional printers **P98**

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