



Ergonomically engir

Digital Hand-held

'Pocket' Refractometer
PAI-1













The next generation of Digital Refractometers

Names and Functions of Components Acutual Size

The PAL-1 can be operated with one hand.



The metal sample stage allows for the sample temperature to conform quickly and evenly to the prism temperature for accurate measurements.

Liquid Crystal Display (LCD)

Digital measurement values are displayed large and easy to read.

START Key

Conveniently located for single hand operation.

Prism

Made of highly durable optical glass to prevent scratching.

ZERO Key

For Zero Setting, place water on the prism and press.

Strap Holder

Conveniently sized to use your personally favorite strap.



Convenient storage case

The Main Features



* Revolutionary NEW design : Easy to pour out and remove samples and difficult to spill the sample



- * Always clean and shiny can be cleaned under running water
- * Wide measurement range (Birx0.0 to 53.0%) can measure various samples.
- * Automatic Temperature Compensation
- * Automatically cancel the measurement and display an error message when an erratic measurement value is detected.





Pocket

FRACTOMETER PAL-1





neered design for tire free use.

The PAL-1 is a completely new and redesigned digital hand-held instrument that will change the traditional conceptions of refractometers. The PAL-1's surprisingly compact size allows you to easily carry it around and use it indoors as well as outdoors. The size, design, function and performance will surprise you. The PAL-1 will expand your range of measuring possibilities.





Application

- *Outdoors at fruit and vegetable farming orchards
- *Indoors at beverage (fruits juice, coffee, soft drink, etc) and food (soy source, sauce, seasoning, soup, pickle, low concentration of jam, marmalade, jelly and syrup, etc) factories

The PAL-1 can measure high temperature samples during the heating or cooking process. (The measured Brix value will stabilize after taking a few repeated measurements.)

- *At fruit and vegetable markets or supermarkets
- *At restaurants or shops
- *At junior high, high schools, or universities as a course material

Measurement Method



Specifications

Measurement Range	Brix 0.0~53.0%
Resolution	Brix 0.1%
Measurement Accuracy	Brix ±0.2%
Measurement	10~60°C Automatic Temperature Compensation
Temperature	
Ambient Temperature	10~40℃
Power Supply	2 x AAA Batteries
International Protection Class	IP65
Dimensions and Weight	55(W)×31(D)×109(H)mm, 100g

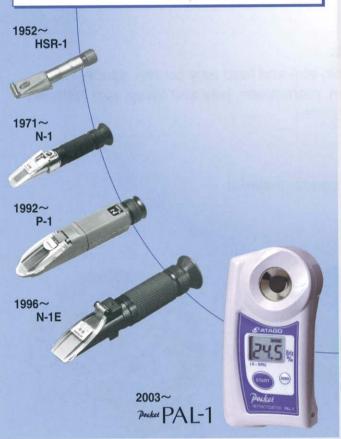
Certification

In accordance with ISO **Quality Management** Systems, ATAGO can calibrate and certify your Digital Hand-held 'Pocket' Refractometer. The following documents will be issued (for a service fee):

- 1. Calibration Certificate
- 2. Traceability System Diagram
- 3. Traceability Certificate



ATAGO Hand-held Refractometer History





- * Compact and easy to carry
- * Portable
- * Leicht und einfach zu tragen
- * Calibrazione con liquidi standard esclusivi
- * Compacto y fácil de llevar
- *輕巧易於攜帶



- *Calibration with water
- *Calibration 1 point* sur eau distillée
- *Kalibrierung mit Wasser
- *Calibrazione con acqua
- *Calibración con agua
- *用水歸零



- * Battery operated
- * Alimentation par pile * Batteriebetrieben
- * Alimentazione a batteria * Funcionamiento con batería
- *使用電池操作



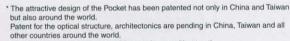
- *Digital display
- *Affichage numérique *Digital Anzeige
- *Display digitale
- *Pantalla digital



- *Automatic temperature compensation
- *Compensation automatique de température
- *Automatische Temperaturkompensation
- *Compensazione automatica della temperatura *Compensación de automática de temperatura *自動溫度補償



- *High temperature samples
- *Résistant à la chaleur
- * Hitzebestaendig
- *Resistente al calore
- *Muestras De Alta Temperatura
- *高溫樣品用



Specifications and design are subject to change without notice.



Main Office: 32-10, Honcho, Itabashi-ku, Tokyo 173-0001, Japan

HACCP G.M.P. G.L.P. ATAGO products are acknowledged by HACCP, G.M.P. and G.L.P. systems.

TEL: 81-3-3964-6156 FAX: 81-3-3964-6137 export@atago.net http://www.atago.net/





13005 NE 126th Place, Kirkland, WA 98034 U.S.A. TEL: 1-425-821-9050 FAX: 1-425-825-5525 customerservice@atago-usa.com http://www.atago.net/ V.02 030650000CP Printed in Japan