

Pocket Refractometer

Pocket **PAL-1**

Cat.No.3810

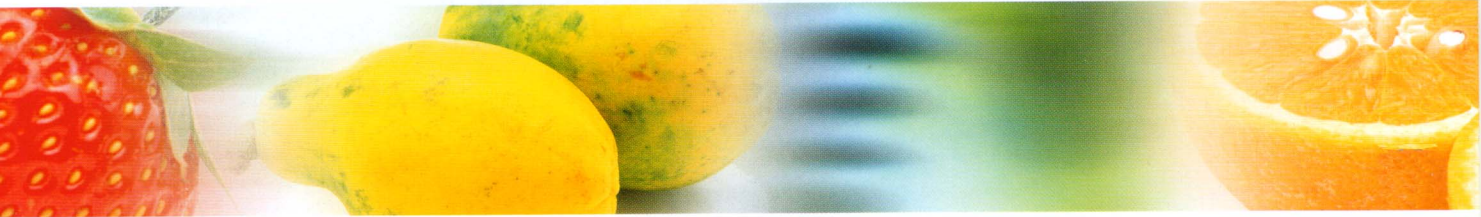
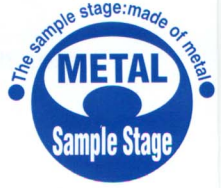
Pocket→Palm→Perform





"The PAL-1 sets the stage for the world of re
Ergonomically engine

**Pocket Refractometer
 PAL-1**



The next generation of Digital Refractometers

Names and functions of components **full size**
 The PAL-1 can be operated with one hand.

Sample Stage

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.



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
- * Convenient storage case



fractometry in the 21st century."

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

Measurement method



1

Apply 2-3 drops onto the prism surface.



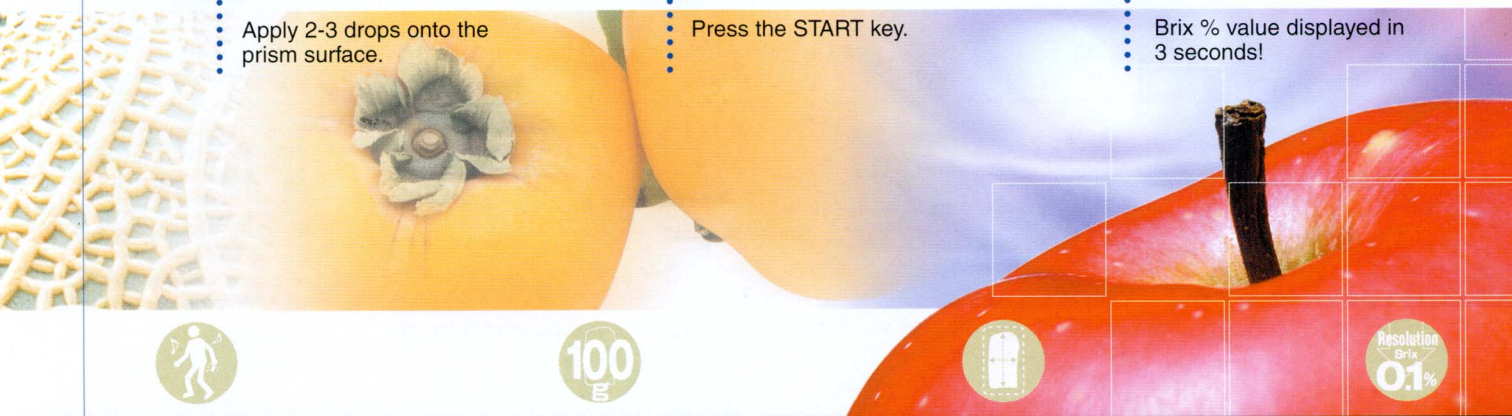
2

Press the START key.



3

Brix % value displayed in 3 seconds!



100g



Resolution
Brix
0.1%

Specifications

Measurement range	Brix 0.0~53.0%
Resolution	Brix 0.1%
Measurement accuracy	Brix $\pm 0.2\%$
Measurement temperature	10~40°C Automatic Temperature Compensation
Power supply	2 x AAA Batteries
Waterproof 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 pocket refractometer. The following documents will be issued (for a service fee):

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

CALIBRATION CERTIFICATE

Issue No. _____
Date of Issue _____
Serial No. _____

Product Name: Pocket Refractometer

Model: PAL-1

1. Appearance Inspection: OK Not OK
2. Function Inspection: OK Not OK
3. Performance Inspection: OK Not OK

	Distilled Water 0.0%	Secondary Liquid 10.0%	Standardize Liquid 40.0%
Tst.			
Znd			
3rd			
Average			
Error			

④ Measuring Accuracy: $\pm 0.2\%$

4. Room Temperature and Humidity: _____

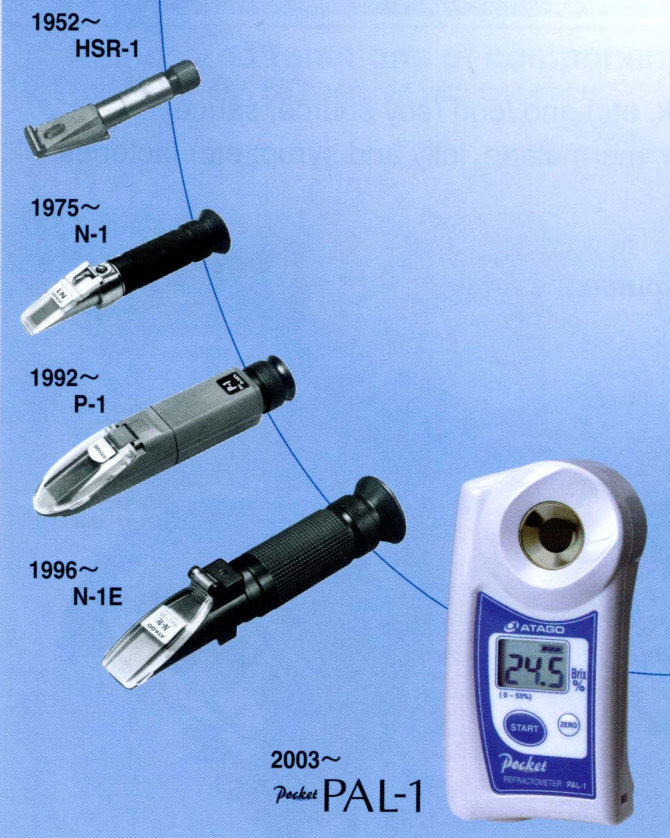
5. Calibration Date: _____

6. Inspected by: *[Signature]*

7. Approved by: *[Signature]*

Form 1100

ATAGO Hand-held refractometer history



EXPLANATION OF ICONS

Icons for functions, specifications and scales have been added to this catalog.

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

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

* Specifications and design are subject to change without notice.

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