

# Palm Abbe™

## Digital Refractometer

 LABORATORY PRECISION IN  
THE PALM OF YOUR HAND™

- Sapphire Optics
- Stainless Steel Well
- Digital Accuracy
- Large LCD Display

Model PA202  
Pictured Here

The new Palm Abbe is a fourth-generation digital handheld refractometer that puts laboratory precision in the palm of your hand. Not just laboratory precision, but laboratory precision for the price of a traditional analog refractometer. It is exactly the kind of bold, cutting-edge technology you would expect from MISCO, the company that pioneered the digital handheld refractometer.

The Palm Abbe refractometer is fast, convenient, and easy to use. Simply place a drop or two of fluid in the well and press a button on the key-pad. The custom-designed microprocessor delivers a nearly instantaneous readout in refractive index, degrees Brix, or any one of a thousand different units of measure, allowing you to read directly in the units you desire. Nonlinear temperature compensation is automatic and insures that fluids read between 0 and 50 °C (+32 to 122 °F) are measured accurately.

The large dual-line LCD display is easily read, even in dim light, and removes the subjectivity associated with interpreting where a boundary line crosses tiny scale divisions.

And, it is so easy to use! The user interface consists of two buttons, one to take readings and the other to step through various menu options.



[www.misco.com](http://www.misco.com)

3401 Virginia Road  
Cleveland, Ohio 44122 (USA)  
TEL 216.831.1000  
FAX 216.831.1195  
Toll Free 800.358.1100



# Palm Abbe™

## Digital Refractometer

LABORATORY PRECISION IN  
THE PALM OF YOUR HAND™

### Rugged Ergonomic-Design

The Palm Abbe fits like a glove in the palm of your hand. The weight of its evenly-balanced design can be held easily in any size hand, even during extended periods of use. The positive response buttons on the keypad provide tactile feedback to the operator when pressed.

A strong plastic enclosure is sealed to guard against liquid and dust penetration, while an integrated prism cover helps prevent sample evaporation and protects the sapphire measuring surface from possible damage. The cover also shields the optics from the influence of strong ambient light, making the Palm Abbe ideal for use indoors or in direct sunlight.

### Easy to Use...



**STEP 1**  
Place a drop or two in the sample well.

**STEP 2**  
Close the sample cover and allow the temperature to equalize.

**STEP 3**  
Press and release the <GO> or <READ> button on the keypad

	PA201	PA202	PA203
<b>Unit of Measure:</b>	Brix	Brix Refractive Index (nD)	Up to 5 Different Scales
<b>Range:</b>	0.0 to 56.0	0.0 to 85.0 Brix 1.3330 to 1.5040 nD	Equivalent To 1.3330 to 1.5040 nD
<b>Resolution:</b>	0.1 Brix	0.1 Brix 0.0001 nD	Equivalent To 0.0001 nD
<b>Precision:</b>	+/- 0.1 Brix	+/- 0.1 Brix +/- 0.0001 nD	Equivalent To +/- 0.0001 nD
<b>Well Material:</b>	Titanium		
<b>Prism Material:</b>	Sucrose	Sucrose	Varies
<b>Temp. Comp. Range:</b>	0 to 50° C (32 to 122° F)		
<b>Temp. Comp. Basis:</b>	Sucrose	Sucrose	Varies
<b>Min. Sample Volume:</b>	~0.3 ml		
<b>Measuring Time:</b>	< 5 Seconds		
<b>Power Supply:</b>	2 X AAA Batteries		
<b>Battery Life:</b>	5000+ Readings	4000+ readings	3000+ Readings
<b>Dimensions:</b>	145 x 75 x 37 mm (5.7 x 2.95 x 1.46 in.)		
<b>Net Weight:</b>	249 grams (8.75 Oz.)	250 grams (8.8 Oz.)	254 grams (9.0 Oz.)
<b>Multilingual Display:</b>	English Only	English Only	English, French, Spanish, German, and Russian
<b>Display:</b>	2 Lines x 12 Characters		
<b>Color:</b>	Light Blue	Light Blue	Black
<b>BEST FEATURE</b>	<b>LOW PRICE</b>	<b>Wide Range - Best Value</b>	<b>Flexibility / Versatility</b>

### Auto Calibration

Calibration is automatic and does not require the use of special calibration solutions or tools. The Palm Abbe refractometer automatically calibrates itself to water and is ready to use in seconds. No more screws to turn and nothing to adjust.

### An Outstanding Value

Because the Palm Abbe offers great performance and accuracy at a very affordable price there's no need to make trade-offs between accuracy and affordability. The Palm Abbe provides high-end performance and precision at a low price, making the Palm Abbe one of the best refractometer values available.

MISCO • 3401 Virginia Road • Cleveland, Ohio 44122 (USA)  
TEL 216.831.1000 • FAX 216.831.1195 • Toll Free 800.358.1100

[www.misco.com](http://www.misco.com)

**MISCO**  
REFRACTOMETERS

For more information, visit [www.misco.com](http://www.misco.com) or call Toll Free 800.358.1100

All product specifications and features are subject to change © 2004 MISCO, all rights reserved.