For measuring refractive index!

Digital Refractometer PR-RI

Measurement Range:

Refractive index 1.3306~1.4436

Temperature 5~45°C

Refractive index 0.0001 Minimum Indication: Temperature 1°C

Refractive index ± 0.0002 Measurement Accuracy:

(water at 20°C) Temperature ± 1°C

Measurement Temperature: 5~45°C

006P dry battery (9V) Power Supply:

Dimensions and Weight: $17(W) \times 9(D) \times 4(H)$ cm 300g

(main unit only)

Exclusive Scale Models

Digital Refractometer for isopropyl alcohol PR-60PA Cat.No.3477

Measurement Range: Concentration of isopropyl alcohol 0.0 to 60.0% (W/W)

Measurement Accuracy: ±0.5% (0 to 30%)

*Concentration of about 40%***±0.8%, 60%***±1.6%

Digital Refractometer for ethyl alcohol

PET-109

Cat.No.3486

Measurement Range: Concentration of ethyl alcohol 0.0 to 45.0% (W/W)

Measurement Accuracy: ±0.5% (0 to 30%)

*Concentration of about 40%···±0.8%, 45%···±1.2%

Digital Refractometer for water solution of hydrogen peroxide

PR-50HO

Cat.No.3478

Measurement Range: Concentration of a water solution of hydrogen peroxide 0.0 to 50.0% (W/W)

Measurement Accuracy: ±0.5%

Digital Refractometer for dimethyl formamide

PR-40DMF Cat.No.3489

Measurement Range: Concentration of Dimethylformamide

0.0 to 40.0% (W/W)

Measurement Accuracy: ±0.3%

Digital Refractometer for salinity

PR-100SA Cat.No.3488

Measurement Range: Concentration of salinity 0 to 100%.

Measurement Accuracy: ±2%

All ATAGO refractometers are designed and manufactured in Japan.

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Certification

In accordance with ISO Quality Management Systems, ATAGO can provide calibration and certification for any ATAGO refractometer. The following documents will be issued (for a service fee):

- 1.Calibration Certificate
- 2.Traceability System Diagram

PR-RI

PR-60PA

(ISO9001) ASR REGISTERED 3. Traceability Certificate



Optional

Sucrose Solutions (for Brix confirmation)

Part Name RE-110010 10% Sucrose (±0.03%) RE-110030 30% Sucrose (±0.03%) RE-110050 50% Sucrose (±0.05%)



EXPLANATION OF ICONS

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

- mpact and easy to carry
- Portable
 Leicht und einfach zu tragen
- cto y fácil de llevar
- *Calibration with water
- * Calibration with exclusive standard liquid Calibration 1 point sur solution standard
 Kalibrierung mit speziellem Standard
 - Calibration 1 point sur solution standard
- - Alimentation par pile Batteriebetrieben
- Alimentazione a batteria Funcionamiento con batería * 使用雷沧場件
- *Digital display
- *Display digitale *Pantalla digital
- - ompensation automatique de température utomatische Temperaturkompensation ompensazione automatica della temperatura ación de automática de temperatur
 - External Light Interference Interférence de la lumière externe
 - Außere Lichteinflüsse Interferenza della luce esterna Luz de Interferencia Externa

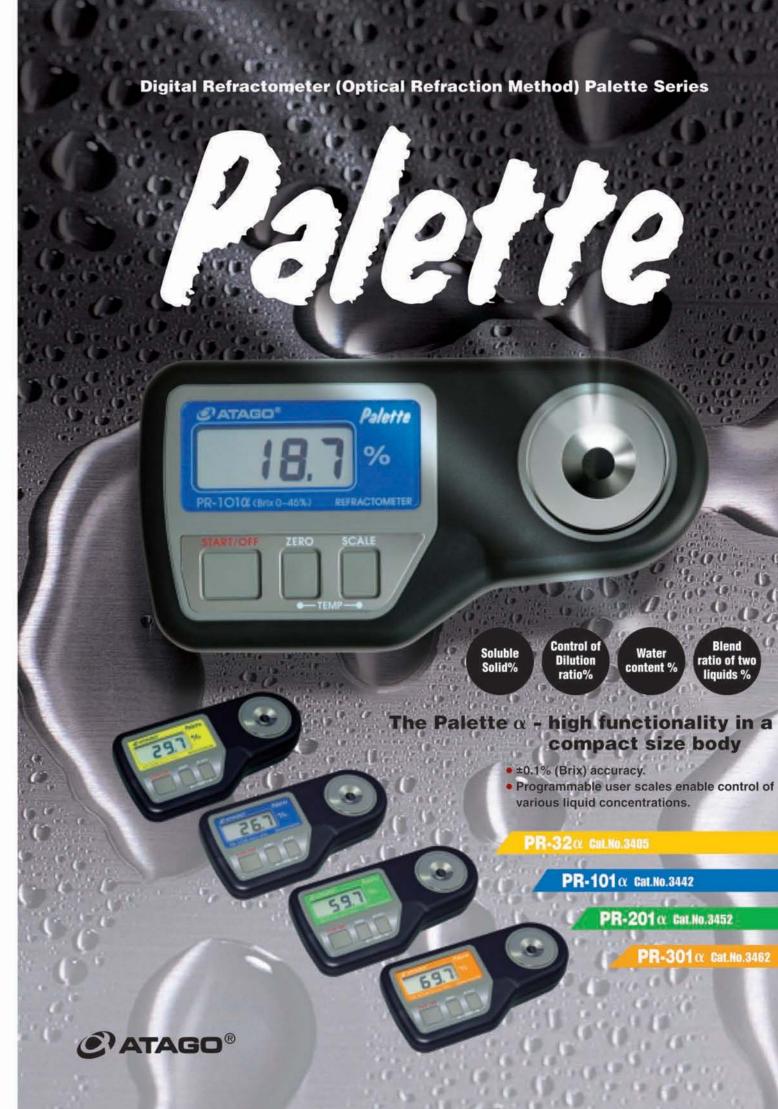


外部光線干涉

ATAGO products comply with HACCP,

V.04 12070000CP Printed in Japan

* Specifications and appearance are subject to change without notice.



Blend

ratio of two

The continuing evolution of the Palette — The Debut of the Palette α

The Palette α series is the ultimate compact instrument which is the result of years of proven reliable performance, ease of operation and the functionality of design.

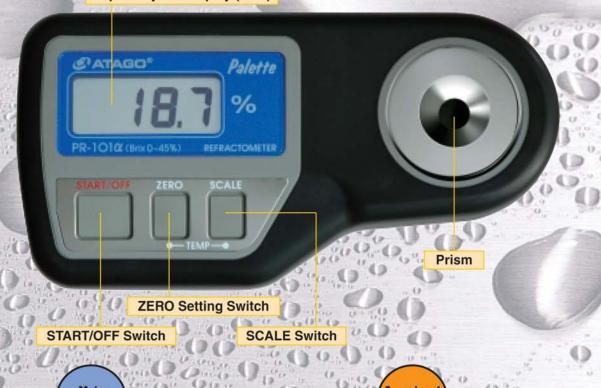


Measureme time is Just SHILLINGS

Names of Components

Liquid Crystal Display (LCD)

CARREST AND A CO



Control of dilution ratio (multiples in %)

When water soluble cutting oils, aqueous cleaning agents, surfactants, liquid chemicals, etc. are diluted for use, their dilution ratio (multiples in %) can be managed by the Palette α series.

Control of water content (%)

The water content in certain kinds of metal working oils. liquid cleansers, and liquid medicine, can evaporate while being used. To maintain the level of highest efficiency for the liquid, water needs to be replenished for optimal efficiency. In such cases, change in the water content can be managed by the Palette α series.

Control the blend ratio of two liquids (%)

When a liquid additive is mixed with a primary liquid (for example, when flux or working oil is dissolved into a liquid cleanser), the blend ratio (%) of the foreign liquid can be managed by the Palette α series.

Metalworking Oils

Water soluble cutting oils, lubricating oils, working oils, rolling oils, quenching oils, stretching oils, mold lubricant (except insoluble agents), etc.

Measurement

Detergents

Aqueous cleaning agents, quasi-aqueous detergents, hydrocarbon detergents, petrochemical detergents, alkaline detergents, isopropyl alcohol (IPA), etc.

Other liquids

Alkaline solutions, ammonia solutions, surfactants, caustic sodas, hydrogen peroxide water, glycerin, caulking agents, sealants, sealing agents, liquid resin, fire extinguishing solutions, salt water, adhesive agents, gelatin, protein water, DMF, freeze protective agents, thermal catalytic solutions (for freezer, solar apparatus), adhesives (all kinds), etching regents, anti-freezing agents, flux, corrosion protective agents, formalin, water glass, plating agents, lining agents, etc.

This instrument measures the refractive index of liquids and converts the measured value into the sugar concentration value, 'Brix. The relationship between the refractive index and Brix (%) concentration is based on the type of liquid. With the user function, direct concentration measurements can now be displayed by establishing and programming the respective coefficient into the user scale.

Four models of the Palette α are available for your different measurement samples.









PR-201α Cat.No.3452

NEW!





PR-301α Cat.No.3462















Main Features

PR-32α Cat.No.3405

Accuracy improved to ±0.1%

The conventional measurement accuracy, ±0.2%, is increased to ±0.1%. The highest accuracy available in a

User scale feature

The user scale function has been added. Concentrations of various samples can be displayed by setting up a coefficient. Three separate user scales can be entered.

Convenient temperature display

A temperature display function has been added. Temperature is displayed by pressing a switch.

External-light-Interference (ELI)*

Conventionally, digital optical instruments have the potential to display incorrect measurement values if sampling is performed near a window or outdoors where lighting may be too intense. The new ELI technology provides security under these conditions to ensure accurate measurements.

Two-year warranty

temperature.

ATAGO has extended the warranty term for the Palette a series to 2 years. For the terms and conditions, contact

Automatic Temperature Compensation (ATC) function

With ATC, there is no need to worry about the measurement

Large, easy to read display

The large-sized liquid crystal panel makes it easy to read the measured result.

Accuracy assured!!

The Palette α is manufactured to ISO 9001 standards with the highest quality materials to ensure that the sample liquids such as water-soluble cutting oils, washing liquids, industrial liquids and various chemicals, will be measured accurately.

Measurement Method







Apply 1 drop of sample solution onto the prism surface.

Press the START/OFF Switch.

Brix (%) value displayed in 3 seconds!

	PR-32α	PR-101α	PR-201α	PR-301α
Cat.No.	3405	3442	3452	3462
Measurement Range	Brix0.0~32.0%	Brix0.0~45.0%	Brix0.0~60.0%	Brix45.0~90.0%
Minimum Indication		Brix 0.1%		
Measurement Accuracy	Brix ±0.1% (5~40°C)		Brix ±0.1% (10~40°C)	Brix ±0.1% (10~30°C)
Measurement Temperature	5~40°C Automatic Temperature Compensation		10~40°C Automatic Temperature Compensation	
Ambient Temperature	5~40°C		10~40°C	
Sample Volume		0.1ml or more		
Measurement Time		3 seconds (approximately)		
Power Supply		006P dry battery (9V)		
International Protection Class		IP64 Water Resistant		
Dimensions and Weight		17 (W) × 9 (D)	× 4 (H) cm. 300a	

* External Light Interference (ELI) - Patent Pending

When intense light penetrates the prism of a digital refractometer, the light waves may interfere with the sensor resulting in inaccurate readings.

To ensure accurate measurement results each time, the Palette α is programmed with the ELI when intense direct light is detected. Forming a habit of shading the sample stage with your hand and re-pressing the START/OFF Switch (when the warning message from the ELI function is displayed) will ensure accurate measurement results each time.