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Palette

easures concentration of solutions with a light bear

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.





Names of Components

Liquid Crystal Display (LCD)





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.

2 Con

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.

(3)

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.

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.

About

This instrument measures the refractive index of liquids and converts the measured value into the sugar concentration value, 'Brix.'

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

























PR-201 α Cat.No.3452











PR-301 α Cat.No.3462









Calibration with the Standard Liquid LG.

Main Features

Accuracy improved to ±0.1%

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

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

NEW!

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

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

Automatic Temperature Compensation (ATC) function

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

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			-40°C rature Compensation	
Ambient Temperature	5~4	0°C	10~40°C	
Sample Volume		0.1ml c	or more	
Measurement Time		3 seconds (a	pproximately)	
Power Supply		006P dry b	attery (9V)	
International Protection Class		IP64 Wate	r Resistant	

* 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 $\boldsymbol{\alpha}$ is programmed with the ELI function to display the warning message "nnn" 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

For measuring refractive index!

NEW!

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

Measurement Accuracy: Refractive index ± 0.0002

(water at 20°C) Temperature ± 1°C

5~45°C Measurement Temperature:

Power Supply: 006P dry battery (9V)

Dimensions and Weight: 17(W) × 9(D) × 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%

30

160

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.

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

3. Traceability Certificate



Optional

Sucrose Solutions (for Brix confirmation)

Part No. 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.

- * Compact and easy to carry
- * Compact and easy to carry

 * Portable

 * Leicht und einfach zu tragen

 * Calibrazione con liquidi standard esclusivi

 * Compact oy fácil de llevar

 * 輕巧易於攜帶
- *Calibration with water
 - *Calibration with water
 Calibration 1 point sur eau distillée
 *Kalibrierung mit Wasser
 *Calibrazione con acqua
 *Calibración con agua
 *用水絕零
- Calibration with exclusive standard liquid
 - Calibration 1 point sur solution standard Kalibrierung mit speziellem Standard Kalibration 1 point sur solution standard Calibration 1 point sur solution standard Calibration con patrones liquidos especiales 使用專屬標準液
- * 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
- * External Light Interference * Interférence de la lumière externe Äußere Lichteinflüsse

 - Interferenza della luce esterna
 Luz de Interferencia Externa
 - * 外部光線干涉

