ver 8 avi	30 scale ailable!									
	Model name PAL-27S PAL-43S	(Magnesium chloride) Scale Soy milk Bittern (Magnesium chloride)	4451 4455 4464 4465 4466 4468	PAL-51S PAL-55S PAL-64S PAL-65S PAL-66S PAL-68S	Sodium bromide Magnesium sulfate Sodium bicarbonate Sodium tartrate Potassium oxalate Potassium dichromate	4431PAL-31SFormic acid4432PAL-32SPhosphoric acid4444PAL-44SLithium chloride4445PAL-45SBarium chloride4446PAL-46SCobalt chloride4447PAL-47SFerric chloride				
Cat. No. Model name 4496 PAL-96S		Scale Chinese noodle soup Baume of Kansui	4470 4472	PAL-70S PAL-72S	Potassium phosphate Sodium tungstate	4448 PAL-48S Strontium chloride 4449 PAL-49S Potassium chloride 4450 PAL-50S Potassium bromide				
4508 4498	PAL-Pâtissier PAL-98S		Wine Cat. No. Model name		Scale	4451 PAL-51S Sodium bromide 4452 PAL-52S Potassium iodide				
Honey Cat. No. 4422	Model name PAL-22S	Scale Honey moisture	4479 4480 4483 4484	PAL-79S PAL-80S PAL-83S PAL-84S	T.A. 1990 T.A. 1971 KMW (or Babo) Baume	4453 PAL-53S Copper sulfate (Concentration 4454 4454 PAL-54S Copper sulfate (S.G.) 4455 4455 PAL-55S Magnesium sulfate 4456 4456 PAL-56S Potassium sulfate				
Salinit			4486 4487	PAL-86S PAL-87S	Oe (Ger) / Brix Oe (Oechsle) / Brix	4457 PAL-57S Nickel sulfate 4458 PAL-58S Sodium nitrate				
Cat. No. 4403 4506 4404 4405	Model name PAL-03S PAL-106S PAL-04S PAL-05S	PAL-03S Sodium chloride (g/100ml) PAL-106S Sodium chloride (g/100ml) PAL-04S Sodium chloride (S.G.)		Al inspectio Model name PAL-10S PAL-42S	Scale Urine (S.G.) Cesium chloride	4459 PAL-59S Zinc sulfate 4460 PAL-60S Silver nitrate 4461 PAL-61S Sodium nitrate 4462 PAL-62S Potassium carbonate 4463 PAL-63S Sodium carbonate 4464 PAL-64S Sodium bicarbonate				
Sea water				PAL-53S PAL-54S	Copper sulfate (Concentration) Copper sulfate (S.G.)	4467 PAL-67S Potassium chromate				
Cat. No. 4406 4407 4408	PAL-07S Seawater (S.G.)			Model name PAL-39S	The second s	4468 PAL-68S Potassium dichromate 4469 PAL-69S Sodium thiosulfate 4470 PAL-70S Potassium phosphate 4471 PAL-71S Sodium molybdate				
	additives, Ir	Seawater (Baume)	4439 Alkalir	ne liquid		4472 PAL-72S Sodium tungstate				
Cat. No. 4429 4430 4432 4464 4465 4470		A CONTRACT OF A	Cat. No. 4440 Artific Cat. No. 4438	Model name PAL-40S ial leather, Model name PAL-38S	and a strange	Cutting oil Cat. No. Model name Scale 4502 PAL-102S Cutting oil				
Sugars	S		Paste Cat. No.	Model name	Scale	Compact and easy to carry Portable				
Cat. No. 4412	Model name PAL-12S PAL-14S PAL-15S PAL-16S PAL-16S PAL-17S PAL-18S PAL-19S PAL-20S	Scale Dextran Fructose Glucose High Fructose Corn Syrup HFCS-42 High Fructose Corn Syrup HFCS-55 Inverted suger Lactose Maltose	4421	PAL-21S melting ag	Dextrin	Contable Contable Calibrazione con liquidi standard esclusivi Compacto y fácil de llevar 電灯易安洪和				
4414 4415 4416 4417 4418 4419 4420			Cat. No. 4403 4441	Model name PAL-03S PAL-41S	Scale Snow-melting agent (Sodium chloride) Snow-melting agent (Calcium chloride)	•Calibration with water •Calibration 1 point* sur eau distillée •Kalibrierum mit Wasser •Calibrazione con acqua •Calibrazione con acqua •用水形学				
4420	ol liquid	ManUSe	4443	PAL-43S	Snow-melting agent (Magnesium chloride)	Battery operated Alimentation par pile Batteriebetrieben				
	Model name	Scale	Coola	nt (Double	scale)	 Alimentazione a batteria Funcionamiento con bateria 使用電池操作 				
4434 4436 4437 4485	PAL-34S PAL-36S PAL-37S PAL-85S	Ethyl alcohol Methyl alcohol Isopropyl alcohol Polyvinyl alcohol		Model name PAL-88S PAL-89S		Digital display Affichage numérique Digital Azacige Display digitale				
Pharmaceutical reagents				Freezing point of Propylene glyc		2000/02/02/02/02				
	Model name PAL-12S PAL-13S PAL-23S	•	4491 4492	PAL-92S	reezing point of Ethylene glycol (°C) Ethylene glycol reezing point of Ethylene glycol (°F)	*Automatische Temperaturkompensation				
4424	PAL-24S	AL-24S Glycerin (High concentration)		ical produc		High temperature samples Résistant à la chaleur				
4425 4426 4431	PAL-25S PAL-26S PAL-31S	Mannitol Formic acid	Cat. No. 4423 4424	Model name PAL-23S PAL-24S	Scale Glycerin (Low concentration) Glycerin (High concentration)	Resistant a la chaeur Hizbestandig Resistente al calore Meesistent a la clare				

All ATAGO refractometers are designed and manufactured in Japan.

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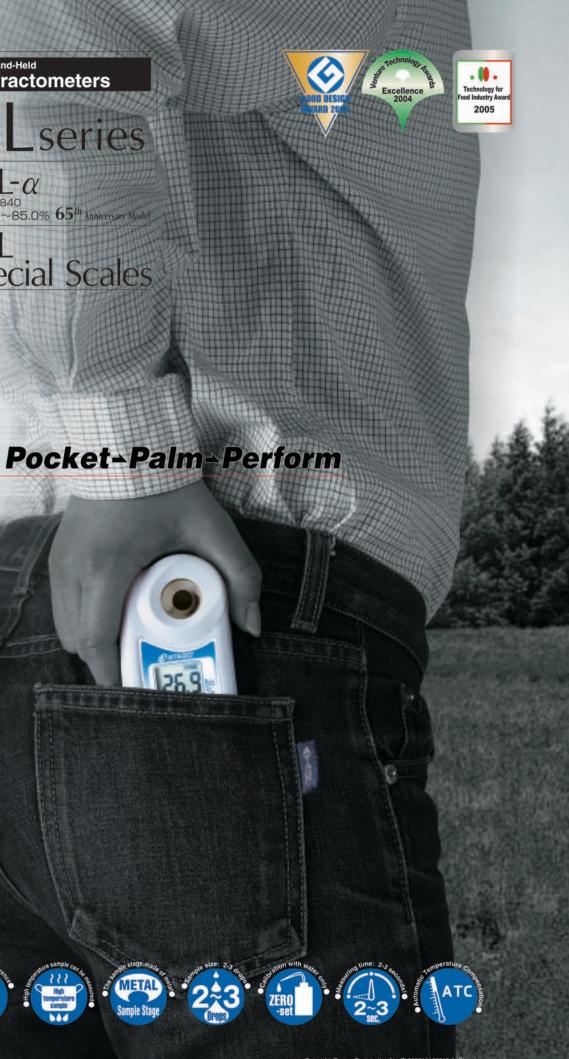
CE HACCP G.M.P. G.L.P. ATAGO products are acknowledged HACCP, G.M.P. and G.L.P. systems.

* Specifications and appearance are subject to change without notice.

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^{Digital Hand-Held} "Pocket" Refractometers Pocket Lseries PAL-α Cat.No.3840 Brix 0.0~85.0% 65th Anniversary Model PAL-1 Cat.No.3810 Brix 0.0~53.0% PAL-2 Cat.No.3820 Brix 45.0~93.0% PAL Special Scales PAL-3 Cat.No.3830 Brix 0.0~93.0%

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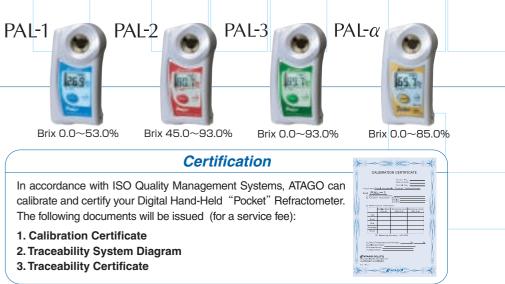


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"The PAL sets the stage for the world of refractometry in the 21st century."

A new ergonomic design for comfort and ease of use!

In pursuit of an "easy to use", "easy to operate" and ergonomic architecture of new instruments, ATAGO has achieved a "palm-fitting" masterpiece as well as a unit that is high in hygienic properties. By reducing the number of unnecessary assembly parts, we have reduced the risks of a germ reproductive environment. Through our efforts to produce a hygienic instrument to be used in any industry, these units are designed to be completely washable. The new Pocket PAL series has been approved by the HACCP, and are equipped with the new ELI feature, which ensures accurate measurements - even outdoors. Requests from our customers worldwide are reflected in the development of the new PAL units.



Everyone is talking about the new "Pocket" as featured on recent TV programs and Magazines

The next generation of Digital Refractometers



Main Features



Always clean and shiny - can be cleaned under running water



* The innovative design makes it easy to pour out and remove a sample, but difficult to spill the sample.

- * Revolutionary new feature ELI*
- * Calibrate with water no more standard solutions
- * Light & Compact, 100g * Automatic Temperature Compensation (ATC)
- Ergonomically designed for one-handed operation

-

Measurement Method



Apply 2-3 drops onto

the prism surface.



Press the START key.



in 3 seconds!

Application

					Marial I				DAL	
		PAL-1	PAL-2	PAL-3	Model	PAL-1	PAL-2	PAL-3	PAL-α	
		Low & Intermediate		$(\mathbf{PAL} \cdot \alpha)$	Cat. No.	3810	3820	3830	3840	
		Brix		Full Range	Measurement Range	Brix 0.0~ 53.0%	Brix 45.0~ 93.0%	Brix 0.0~ 93.0%	Brix 0.0~ 85.0%	
At fruit and vegetable farmin	0		0	riange	50.070	00.070	50.070	00.070		
At beverage factories fruit juices, coffee, soft drinks, etc.		0		0	Resolution	Brix 0.1%				
	juice concentrates, etc.		0	0	Accuracy	Brix ±0.2% Brix ±0		Brix \pm 0.1%	Brix \pm 0.2%	
At food factories	soy sauce, various sauces, etc.	0		0	Repeatability	Brix ±0.1%				
	syrups, jellies , etc.	0	0	0	Measurement	10∼75℃ Automatic Temperature Compensatior			ensation	
	seasoning, soups	0		0	Temperature	e (Boiled samples over 100°C can be me conditions.Please contact ATAGO for		n be measured u	measured under specific	
	jams, marmalade, honey, etc.		0	0	Ambient Temperature	10~40°C				
condensed milk, etc.			0	0	Power Supply	AAA alkaline battery $ imes$ 2			2	
At fruit and vegetable marke	0		0	Battery Life	Approx.11,000 measurements					
At restaurants or food shops		0		0		(When using new alkaline batteries)				
In Junior High, High Schools	s, or Universities as a course material	0	0	0	International Protection Class	I	P65 Wate	er Resistar	t	
The PAL series can measure high (The measured Brix value will sta				Dimensions and Weight	55(W) \times 31(D) \times 109(H)mm,100g (main unit only)					
Section Sectio										





Specifications