

ATAGO® PEN REFRACTOMETER

PEN-PRO

New Continuous Measurement feature to expand your current measuring methods

- Extremely water resistant (IP65)
- External Light Interference (ELI)
- Automatic Temperature Compensation (ATC)
- Calibration with water only
- Measurement in 2 seconds
- Light & Compact, 70g

NEW



Patent Pending

PEN TYPE

External Light Interference (ELI)

Patent Pending

When intense light passes through the prism of a digital refractometer, the light waves interfere with the sensor, which may lead to inaccurate measurements. To ensure accurate measurement results, the PEN Refractometer is programmed with the ELI function which displays the [nnnn] warning message when intense direct light is detected. When the ELI warning is displayed, shading the prism head with your hand and pressing the START key again will ensure accurate measurements.

The PEN type refractometer is extremely easy to use.

● Touch!



● Dip !



● One-handed operation





PEN-PRO Cat.No.3730
DIGITAL HAND-HELD "PEN" REFRACTOMETER



The PEN-PRO has a measurement range of Brix 0.0 to 85.0% which can be used to measure almost any sample. There are 2 ways to measure with the PEN-PRO. Either dip the tip into the sample and press the START key OR press the START key and touch the tip into the sample. There is also the new feature to perform continuous measurements.

SPECIFICATIONS

	PEN-PRO Cat.No.3730
Measurement range	Brix 0.0 to 85.0%
Resolution	Brix 0.1%
Measurement accuracy	Brix ±0.2%
Measurement temperature	10 to 60°C (Automatic Temperature Compensation)
Liquid Sample Temperature	10 to 60°C
Ambient temperature	10 to 40°C
Power supply	1×Size AAA alkaline battery
International Protection class	IP65 Water Resistant (Prism head:IP67)
Dimensions and weight	16X3.8X1.8cm, 70g

Quick & Easy Cleanup!



REFERENCE Refractive index and Brix of various types of samples

Please use as a guide when you select a refractometer

Brix	Food Industry	Chemical Industry	Medical & Science Industry
0	Green tea Thawing liquid	Cutting oil (emulsion) Cleanser Plant cell culture Grinding chemical liquid Cutting liquid Cleaning liquid	Methanol Saline Aloe extract Sea water
5	Miso soup Beer	Nickel plate liquid	
10	Japanese plum Strawberry Plain yogurt Lime Lemon Corn soup Coffee	Flattig liquid	Chlorella extract
15	Orange Mandarin orange Soy milk Coke Apple Milk Alcohol Prince melon Egg white Beef curry	Medicinal solution Gelatin liquid Paper starch Freon113	Serum
20	Orange jelly Demiglace (sauce) Lactic acid bacteria beverage Nectar	Electric (electrical) Discharging liquid	Acetone
25	Canned seasoning Yogurt Pudding Ice block syrup Canned syrup Starch paste Chili sauce	Silicone solution (emulsion)	Ethanol
30	Ketchup Soy sauce Sauce	Protein liquid	Acetic acid
35	Pastry cream Egg yolk Bean jam	Electrolyte Freon11	Saturated saline
40	Soybean paste Concentrated juice Coconut oil	Freon113	
45	Butter Condensed milk Jelly Marmalade Olive oil Molasses Canola oil Sesame oil Cooking oil Honey Starch Syrup	Acrylonitrile	Opal
50		Silicone oil	Carbon tetrachloride Glycerin
55		Ethylene glycol Propylene glycol	
60		Kerosene Quartz glass Vinyl acetate Diesel oil Ricinus Bunker A Polypropylene (PP) Toluene Polyvinyl chloride (PCV)	Xylene
65		Natural rubber (NR) Styrene Bunker C Quartz (AC)	Crystalline Quartz Glass Rock salt Carbolic acid
70		Polystyrene (PS) Polycarbonate (PC) Epoxy (EP) Flat glass Asphalt	Aniline Topol Monobromo-naphthalene
75			
80			
85			
90			
95			
100			

When measuring the concentration of chemical or industrial solutions such as water-soluble cutting oils, water-soluble washing solutions, alcohols, etc. Please note: Most of our hand-held refractometers have Brix (%) scale where the refractive index is converted into a concentration of sugar water. The relation between refractive index and concentration (%) will depend on the kind of liquid. Therefore, these hand-held refractometers require a conversion graph between Brix (%) and concentration (%) prior to measurement.