

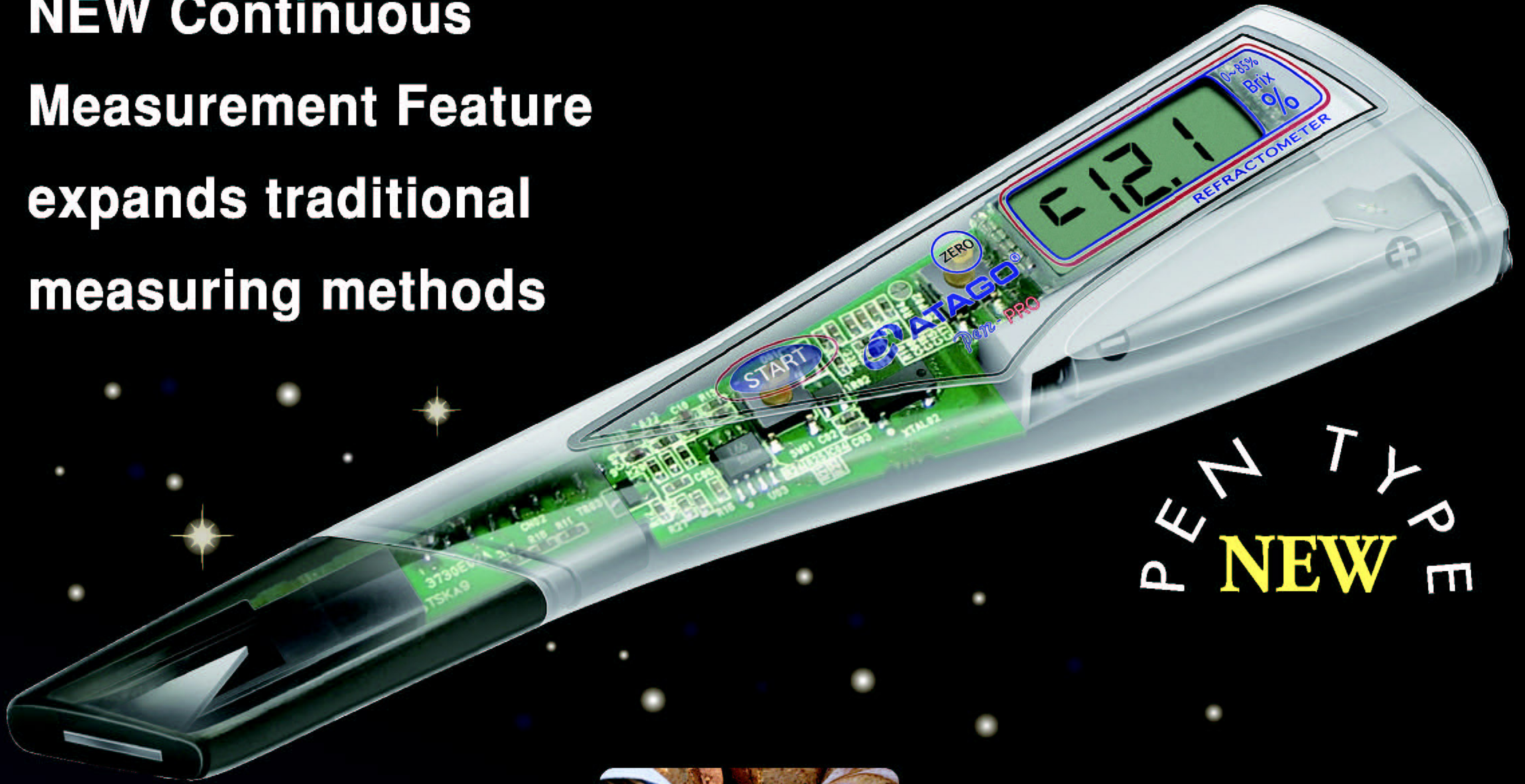
# PEN REFRACTOMETER

# PEN-PRO

Cat.No. 3730



**NEW Continuous Measurement Feature expands traditional measuring methods**



PEN TYPE  
**NEW**

### Benefits:

**Fast measurements!  
Non-homogenous samples – no problem!**

Stir the sample while taking continuous measurements until the readings become stable.

**Easy Continuous Measurements!**

Once the START key is pressed, measurements are taken every second.

Improved efficiency



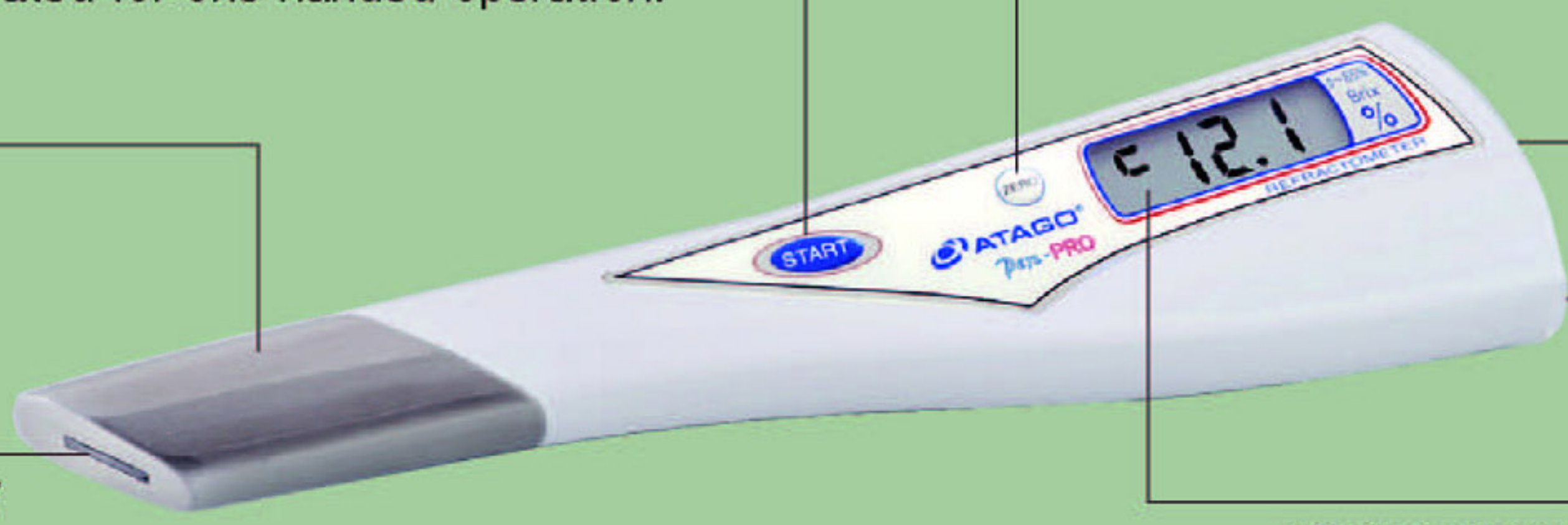
Measure different samples one after another.  
Caution: For sampling of liquids of similar concentration and of minimum viscosity.

**Dip!  
Touch!  
Stir!  
Quick Clean-up!**

# PEN REFRACTOMETER **PEN-PRO**

Patent Pending

## Names and Functions of Components



**START key**  
Press to begin measurement. Conveniently located for one-handed operation.

**ZERO key**  
Press to perform zero-setting.

**Prism head**  
The pen-shape design expands the possibilities for different measuring methods.

**Strap holder**

**Prism**  
Sleek prism housing design for quick and easy cleanup SUS 314.

**Battery case cover**

**Liquid Crystal Display (LCD)**  
Digital measurement values are large and easy to read.

**Measurement Methods**  
Dip the tip into the sample and press the START key or press the START key and touch the tip into the sample (within 10 seconds). The Brix (%) will be displayed in approximately 2 seconds. The PEN-PRO will take continuous measurements, displaying the measured Brix value each second.

The PEN type refractometer is extremely easy to use.

**Touch!**

**Dip!**

**Direct!**

**Stir!**

## Features

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

**Quick & Easy Cleanup!**



### Brix(%)

All refractometers are designed to measure the Refractive Index of a solution. The Brix scale is based on a sucrose and water solution. Since most samples contain substances other than sugar (salts, minerals, proteins), the Brix percentage represents the total concentration of all soluble solids. For certain samples, such as cutting oil or industrial fluids, a conversion chart from Brix percentage to the total concentration of the sample may be necessary. For further information, contact an ATAGO Customer Service Representative.

All ATAGO refractometers are designed and manufactured in Japan.

## External Light Interference (ELI)

When intense light passes through the prism of a digital refractometer, the light waves may interfere with the sensor, which can lead to inaccurate measurements. To ensure accurate measurement results, the PEN-PRO is programmed with the ELI function, which displays the [nnn] 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.

## Specifications

Measurement range	Brix 0.0 to 85.0%
Resolution	Brix 0.1%
Measurement accuracy	Brix $\pm 0.2\%$
Measurement temperature	10 to 100°C (Automatic Temperature Compensation)
Sample temperature	10 to 100°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	16(W)×3.8(D)×1.8(H)cm, 70g(main unit only)

CE **HACCP GMP GLP** ATAGO products comply with HACCP, GMP and GLP standards.

## ATAGO CO.,LTD.

Headquarters: 32-10, Honcho, Itabashi-ku, Tokyo 173-0001 Japan  
TEL: 81-3-3964-6156 FAX: 81-3-3964-6137  
overseas@atago.net http://www.atago.net/



## ATAGO U.S.A., Inc.

12011 NE First Street, Bldg. C, Suite 110, Bellevue, WA 98005 U.S.A.  
TEL: 1-425-637-2107 FAX: 1-425-637-2110  
customerservice@atago-usa.com http://www.atago.net/USA/

## ATAGO INDIA Instruments Pvt. Ltd.

A-501, Mangal Aarambh Business Centre, Near Kora Kendra, Off. S.V. Road, Borivali (West), Mumbai-400 092 India  
TEL: 91-22-2833-8038 / 8076 FAX: 91-22-2899-8164  
customerservice@atago-india.com

※Specifications and appearance are subject to change without notice.