







## Features(MASTER-53α)



### **▲** TOP

## 2. Measuring Method







Apply 2-3 drops onto the 2) Close the daylight plate. 3) Look through the prism surface. eyepiece. Read the

Look through the eyepiece. Read the boundary line where the blue and the white color meet.

This is the Brix(%)

# 3. Main specifications(MASTER-53a)

Scale range	Brix 0.0 to 53.0% (Automatic Temperature Compensation)	
Minimum Scale	Brix 0.2%	
Measurement Accuracy	Brix ± 0.2% (at 20°C)	
Sample Volume	10µ1 or more Optional : Daylight plate for small volume samplings (RE-2311-58M)	
International Protection Class	IP65 Dust-tight and Protected against water jets. (except eye piece)	
Size & Weight	3.2×3.4×16.8cm 130g	

### · List of Brix Scales

Model	Brix Scale range	Features
MASTER-53α	0.0 to 53.0%	Automatic Temperature Compensation Water Resistant IP65 (except eye piece)
MASTER-20α	0.0 to 20.0%	Automatic Temperature Compensation Water Resistant IP65 (except eye piece)
MASTER-53T	0.0 to 53.0%	Automatic Temperature Compensation
MASTER-20T	0.0 to 20.0%	Automatic Temperature Compensation
MASTER-53M	0.0 to 53.0%	
MASTER-20M	0.0 to 20.0%	
MASTER-50H	0.0 to 50.0%	Automatic Temperature Compensation Water Resistant IP65 (except eye piece) Extreme heat and acid resistant models
MASTER-80H	30.0 to 80.0%	Automatic Temperature Compensation Water Resistant IP65 (except eye piece) Extreme heat and acid resistant models
MASTER-93H	45.0 to 93.0%	Automatic Temperature Compensation Water Resistant IP65 (except eye piece) Extreme heat and acid resistant models
MASTER-100H	60.0 to 100.0%	Automatic Temperature Compensation Water Resistant IP65 (except eye piece) Extreme heat and acid resistant models

<sup>\*</sup>The Master-53α, T, H series and ATC-20 are equipped with Automatic Temperature Compensation (ATC), which ensures accurate measurements despite differences in the ambient or sample's temperature.

## · List of Special Scales

Model	Scales Available	Scale range
HHR-2N	Honey moisture	12.0 to 30.0%

## 5. Maintenance

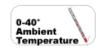
- After measuring, use a lint-free tissue to wipe the sample off of the prism surface. If the sample contains oils or fat, use isopropyl alcohol and water to clean the prism surface.
- When not in use, keep the refractometer in the storage case at room temperature (20°C). Avoid storing the unit in direct sunlight or in a moist environment and do not subject the unit



to strong shocks or vibrations. The ambient temperature at which you can safely store the units is between 0 and  $40^{\circ}$ C.











<sup>\*</sup>The MASTER-50H, MASTER-80H, MASTER-93H, MASTER-100H are suitable for samples that are at a high-temperature or samples that contain acidic or corrosive ingredients.