

ATAGO® HAND-HELD REFRACTOMETER

MASTER Series

Choose the right model for your sample, based on the features and materials of the instrument.

<Brix Scale>

Function 4 types

Both the α and T types are equipped with the Automatic Temperature Compensation (ATC) feature. Choose the α type for the added feature of IP 65 water-resistance. The H type is the heat-resistant version of the α type.

Series	α	T	M	H	53S	500
Water resistant	●	—	—	●	●	●
Automatic Temperature Compensation (ATC)	●	●	—	●	●	—
Heat resistant	—	—	—	●	—	●
Milky sample	—	—	—	—	●	—

※MASTER- α + H series : IP65 (except eyepiece)

Body Material 2 types

Metal



Die-cast aluminum

Ideal for a wide range of applications from agriculture and food to industrial and chemical, including high-temperature samples. Resistant to organic solvents.

Option



Small Volume Daylight Plate with Hinge Pin

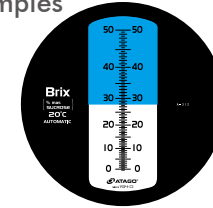
For metal body model
Part No.RE-2311-58M
For plastic body model
Part No.RE-2391-50M

	α	T	M	
Scale range	ATC & Water Resistant Refractometer	ATC Refractometer	Refractometer	Size and weight
1 Brix 0 to 33% Min.scale 0.2%	MASTER-α Cat.No.2311 Accuracy : Brix $\pm 0.2\%$	MASTER-T Cat.No.2312 Accuracy : Brix $\pm 0.2\%$ * $\pm 0.1\%$ (10 to 30°C) ATC	MASTER-M Cat.No.2313 Accuracy : Brix $\pm 0.2\%$	3.2×3.4×20.3cm 155g
2 Brix 28 to 62% Min.scale 0.2%	MASTER-2 α Cat.No.2321 Accuracy : Brix $\pm 0.2\%$	MASTER-2T Cat.No.2322 Accuracy : Brix $\pm 0.2\%$ * $\pm 0.1\%$ (10 to 40°C) ATC	MASTER-2M Cat.No.2323 Accuracy : Brix $\pm 0.2\%$	3.2×3.4×20.3cm 155g
3 Brix 58 to 90% Min.scale 0.2%	MASTER-3 α Cat.No.2331 Accuracy : Brix $\pm 0.2\%$	MASTER-3T Cat.No.2332 Accuracy : Brix $\pm 0.2\%$ * $\pm 0.1\%$ (10 to 40°C) ATC	MASTER-3M Cat.No.2333 Accuracy : Brix $\pm 0.2\%$	3.2×3.4×16.8cm 130g
4 Brix 45 to 82% Min.scale 0.2%	MASTER-4 α Cat.No.2341 Accuracy : Brix $\pm 0.2\%$	MASTER-4T Cat.No.2342 Accuracy : Brix $\pm 0.2\%$ * $\pm 0.1\%$ (10 to 40°C) ATC	MASTER-4M Cat.No.2343 Accuracy : Brix $\pm 0.2\%$	3.2×3.4×16.8cm 130g
10 Brix 0 to 10% Min.scale 0.1% Low concentration	MASTER-10 α Cat.No.2371 Accuracy : Brix $\pm 0.2\%$	MASTER-10T Cat.No.2372 Accuracy : Brix $\pm 0.2\%$ * $\pm 0.1\%$ (10 to 30°C) ATC	MASTER-10M Cat.No.2373 Accuracy : Brix $\pm 0.2\%$	3.2×3.4×20.3cm 155g
20 Brix 0 to 20% Min.scale 0.1% Low concentration	MASTER-20 α Cat.No.2381 Accuracy : Brix $\pm 0.2\%$	MASTER-20T Cat.No.2382 Accuracy : Brix $\pm 0.2\%$ * $\pm 0.1\%$ (10 to 30°C) ATC	MASTER-20M Cat.No.2383 Accuracy : Brix $\pm 0.2\%$	3.2×3.4×20.7cm 165g
53 Brix 0 to 53% Min.scale 0.5% Wide range	MASTER-53 α Cat.No.2351 Accuracy : Brix $\pm 0.5\%$	MASTER-53T Cat.No.2352 Accuracy : Brix $\pm 0.5\%$ * $\pm 0.25\%$ (10 to 30°C) ATC	MASTER-53M Cat.No.2353 Accuracy : Brix $\pm 0.5\%$	3.2×3.4×16.8cm 130g

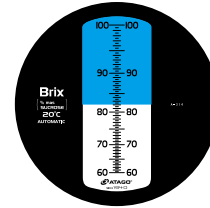
*Repeatability

Heat Resistant

Brix scale examples



MASTER-50H



MASTER-100H

Plastic



P B T

(polybutylene terephthalate)
Resistant to salty and acidic samples.

	α	T	M	
Scale range	ATC & Water Resistant Refractometer	ATC Refractometer	Refractometer	Size and weight
1 Brix 0 to 33% Min.scale 0.2%	MASTER-P α Cat.No.2391 Accuracy : Brix $\pm 0.2\%$	MASTER-PT Cat.No.2392 Accuracy : Brix $\pm 0.2\%$ * $\pm 0.1\%$ (10 to 30°C) ATC	MASTER-PM Cat.No.2393 Accuracy : Brix $\pm 0.2\%$	3.2×3.4×20.3cm 105g
2 Brix 28 to 62% Min.scale 0.2%	MASTER-2P α Cat.No.2941 Accuracy : Brix $\pm 0.2\%$	MASTER-2PT Cat.No.2942 Accuracy : Brix $\pm 0.2\%$ * $\pm 0.1\%$ (10 to 40°C) ATC	MASTER-2PM Cat.No.2943 Accuracy : Brix $\pm 0.2\%$	3.2×3.4×20.3cm 105g
3 Brix 58 to 90% Min.scale 0.2%	MASTER-3P α Cat.No.2951 Accuracy : Brix $\pm 0.2\%$	MASTER-3PT Cat.No.2952 Accuracy : Brix $\pm 0.2\%$ * $\pm 0.1\%$ (10 to 40°C) ATC	MASTER-3PM Cat.No.2953 Accuracy : Brix $\pm 0.2\%$	3.2×3.4×16.8cm 90g
4 Brix 45 to 82% Min.scale 0.2%	MASTER-4P α Cat.No.2961 Accuracy : Brix $\pm 0.2\%$	MASTER-4PT Cat.No.2962 Accuracy : Brix $\pm 0.2\%$ * $\pm 0.1\%$ (10 to 40°C) ATC	MASTER-4PM Cat.No.2963 Accuracy : Brix $\pm 0.2\%$	3.2×3.4×16.8cm 90g
10 Brix 0 to 10% Min.scale 0.1% Low concentration	MASTER-10P α Cat.No.2981 Accuracy : Brix $\pm 0.2\%$	MASTER-10PT Cat.No.2982 Accuracy : Brix $\pm 0.2\%$ * $\pm 0.1\%$ (10 to 30°C) ATC	MASTER-10PM Cat.No.2983 Accuracy : Brix $\pm 0.2\%$	3.2×3.4×20.3cm 105g
20 Brix 0 to 20% Min.scale 0.1% Low concentration	MASTER-20P α Cat.No.2991 Accuracy : Brix $\pm 0.2\%$	MASTER-20PT Cat.No.2992 Accuracy : Brix $\pm 0.2\%$ * $\pm 0.1\%$ (10 to 30°C) ATC	MASTER-20PM Cat.No.2993 Accuracy : Brix $\pm 0.2\%$	3.2×3.4×20.7cm 110g
53 Brix 0 to 53% Min.scale 0.5% Wide range	MASTER-53P α Cat.No.2971 Accuracy : Brix $\pm 0.5\%$	MASTER-53PT Cat.No.2972 Accuracy : Brix $\pm 0.5\%$ * $\pm 0.25\%$ (10 to 30°C) ATC	MASTER-53PM Cat.No.2973 Accuracy : Brix $\pm 0.5\%$	3.2×3.4×16.8cm 90g

*Repeatability