



New Artisan™ Portable Refractometers

These new low-cost refractometers are designed to take quick and easy measurements in a wide range of applications. Each model features an adjustable focus and calibration screw. HR100 models are factory-calibrated at 20°C (68°F). HR110 models have automatic temperature compensation built-in for the most accurate measurements (10 to 30°C (50 to 86°F)).

Select for models precalibrated for a wide range of applications.

All models are made of corrosion-resistant brass with rubber-insulated grips. Shipped completed with ABS storage case, calibration screwdriver and instructions. One year warranty.

**Built-in ATC
for accurate
measurements!**



Artisan™ HR110 Portable Refractometer

SPECIAL FEATURES

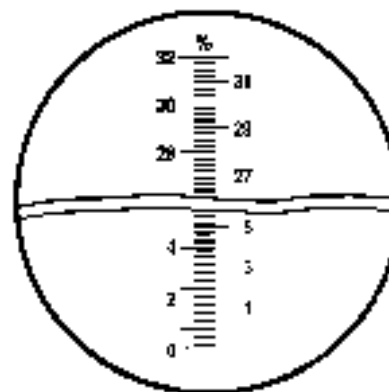
- Portable, easy-to-use design
- ATC on most models
- Calibrateable
- Compact Size
- One year warranty

APPLICATIONS

- Sugar Concentrations in beverages & other food products
- Antifreeze & Battery Acid
- Salt Solutions in Aquariums
- Fluids in Plant Maintenance
- Medical fluid testing

Models Calibrated for:

- Sugar / Brix
- Salinity
- Protein / Urine
- Alcohol
- Antifreeze / Battery Acid



Each instrument has easy to read scales:

1. Place the sample on the lens,
2. Close the cover,
3. Point towards a light source,
4. Focus and READ!

HR100/110 - Refractometers

HR100/110 ORDERING INFORMATION and SPECIFICATIONS

| Part No. | Model | Range | Resolution | Accuracy | Dim. (mm) | ATC |
|----------------------------------|------------|--|-----------------------------------|--------------------------------------|---------------|------------|
| SUGAR/BRIX | | | | | | |
| HR110.001 | HR110B10 | 0 to 10% Brix | 0.1% | 0.1% | 29 x 40 x 210 | 10 to 30°C |
| HR110.002 | HR110B18 | 0 to 18% Brix | 0.1% or 0.2% | 0.1% or 0.2% | 27 x 40 x 190 | 10 to 30°C |
| HR110.003 | HR110B32 | 0 to 32% Brix | 0.2% | 0.2% | 29 x 40 x 160 | 10 to 30°C |
| HR110.004 | HR110B62 | 28 to 62% Brix | 0.2% | 0.2% | 29 x 40 x 148 | 10 to 30°C |
| HR110.005 | HR110B90 | 58 to 90% Brix | 0.5% | 0.5% | 29 x 40 x 160 | 10 to 30°C |
| HR100.013 | HR100B080 | 0 to 80% Brix (2 scales) (0 to 50; 50 to 80) | 1% | 1% | 31 x 31 x 170 | NO |
| HR100.012 | HR100B090 | 0 to 90% Brix (3 scales) (0 to 42; 42 to 71; 71 to 90) | 0.2% | 0.2% | 34 x 38 x 195 | NO |
| REFRACTIVE INDEX(nD, RIU) | | | | | | |
| HR110.009 | HR110U | 1.3325 to 1.3600 RIU 0 to 12 g/dl; 1.000 to 1.050 sg | 0.0005 RIU 0.2 g/dl; 0.005 UG | 0.0005 RIU 0.2 g/dl; 0.005 UG | 27 x 40 x 160 | 10 to 30°C |
| HR100.014 | HR100RI152 | 1.333 to 1.520 RIU(3 scales) (1.333 to 1.40; 1.40 to 1.47; 1.47 to 1.52) | 0.001 RIU | 0.001 RIU | 34 x 38 x 195 | NO |
| SALINITY | | | | | | |
| HR110.006 | HR110S28 | 0 to 28% Salinity | 0.2% | 0.2% | 27 x 40 x 160 | 10 to 30°C |
| HR110.007 | HR110S100 | 0 to 100 ppt Salinity; 1.000 to 1.070 sg | 1 ppt 0.001 sg | 1 ppt 0.001 sg | 27 x 40 x 190 | 10 to 30°C |
| PROTEIN/URINE | | | | | | |
| HR110.009 | HR110U | 0 to 12 g/dl; 1.00 to 1.050 sg; 1.3325 to 1.3600 RIU | 0.2 g/dl; 0.005 UG; 0.0005 RIU | 0.2 g/dl; 0.005 UG; 0.0005 RIU | 27 x 40 x 160 | 10 to 30°C |
| ALCOHOL | | | | | | |
| HR100.010 | HR100A | 0 to 80% w/w | 1% (2.5% - 60 to 80%) | 1% (2.5% - 60 to 80%) | 27 x 40 x 190 | NO |
| HR110.010 | HR110A | 0 to 25% VOL | 0.1% VOL | 0.1% VOL | 27 x 40 x 160 | 10 to 30°C |
| ANTIFREEZE/BATTERY ACID | | | | | | |
| HR110.015 | HR100GBF | -50°F to 0°C(-60°F to 32°F); 1.15 to 1.30 sg (Ethylene and Propylene) | 5°C(10°F); 0.01 sg | 5°C(10°F); 0.01 sg | 27 x 40 x 160 | 10 to 30°C |
| HR110.011 | HR110GB | -50°C to 0°C; 1.15 to 1.30 sg (Ethylene and Propylene) | 5°C; 0.01 sg | 5°C; 0.01 sg | 27 x 40 x 160 | 10 to 30°C |

Shpg Wt. 0.45 kg (1.0 lb). (HR100.013 is 0.9 kg (2 lb); HR100.012 and HR100.014 are 1.4 kg (3 lb)).

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