

AR7 Series Refractometers: Fully automatic; Peltier temperature controlled; and superior ease of use.



AR7 Series

Operation	Automatic, Reflected Light Refractometer
Catalog No.	AR700 - 13107000 (110 to 220V with US, EU and UK Power Cords) AR70 - 13107700 (110 to 220V with US, EU and UK Power Cords)
Sample Types	Transparent, Translucent, and Opaque Liquids
Reading Range	1.33 to 1.6 Refractive Index Full Brix Scale per ICUMSA
Precision	AR700 - 0.00001 Refractive Index, 0.01 Brix AR70 - 0.0001 Refractive Index, 0.1 Brix
Calibration	Set Point or Set Point/Span User Definable
Temperature Control Method	Built-In Peltier System (No water bath circulator needed)
Temperature Control Range	10° below ambient to 100° Celsius
Temperature Precision	0.01° Celsius
Prism Assembly	Sapphire Prism mechanically sealed with Teflon Gasket to 416 Grade Stainless Steel Sample Well
Display	Graphic LCD Display, 4.3"W X 2.4"H (11 X 6 cm)
User Interface	Simple, Effective 5-Button Operation
I/O	2 RS-232-C Serial Ports
Warranty	2 Years
Software Features	Calibration History Record, Programmable with Up to 14 Custom Scales, Password Protected Set-Up, Automatic Sample Equilibration Detection, Restore to Factory Option
Optional Accessories	13107100 AR7 Series Flow Cell 13107200 AR7 Series Funnel Flow Cell 13107300 AR7 Series Sample Press

AR7 Series Automatic Refractometers

The AR7 Series Automatic Refractometers feature exceptional accuracy, solid state temperature control, a wide reading range, and simple and fast operation. They offer outstanding flexibility to provide accurate readings for a variety of applications, from chemical identification to purity determination to concentration measurements. The AR7 Series refractometers feature an expanded refractive index reading range of 1.33 to 1.6 and Peltier Temperature Control from 10° to 100° C. They enable you to analyze a broad range of samples, from fruit juices to polymers, and eliminate the need to dedicate instruments for specific products.

AR7 Series Key Features

- Sapphire prism for incredible durability
- Peltier Temperature Control from 10° to 100°C with automatic temperature equilibration detection to ensure accurate readings
- No water bath circulators are ever required
- Full Brix Range, refractive index range of 1.33 to 1.6
- User-definable calibration points throughout the reading range ensure accuracy at every point
- Accommodates sample types that are transparent, translucent or opaque
- Simple calibration, NIST certified oils included
- Calibration History Log
- Accessories enhance repeatability, accuracy and reliability for special applications that call for them

Two Models

AR700 with precision to 0.01 Brix or 0.00001 Refractive Index
AR70 with precision to 0.1 Brix or 0.0001 Refractive Index

