

Reichert *r*²i300 Compact Digital Refractometer

Reichert
**SAPPHIRE
TOUGH!**

Speed, Greater Accuracy, and Unbelievable Durability in a Compact Design.
Now with touch-screen technology!

Compact, Powerful, and Sapphire Tough!

The *r*²i300—with a small footprint (12" x 8.75")—has all the speed and power of much larger automatic benchtop refractometers. Engineered with our new sapphire prism (4x harder than glass), the *r*²i300 is benchtop tested to be tough, durable, and more resistant to surface damage from demanding applications.

Greater Accuracy!

The *r*²i300's new sapphire prism delivers 2.5x more conductivity to temperature than a conventional glass prism, providing greater accuracy of the Automatic Temperature Correction (ATC) calculation. The result? A more precise measurement every time!

Amazing Versatility!

The *r*²i300 has wide Brix and Refractive Index (RI) reading ranges for a variety of applications. It measures dark-colored and opaque samples and meets the testing requirements of many applications, including those in the food, beverage, chemical, pharmaceutical, and petroleum industries.



Color touch-screen!

Reichert *r*²i300 Key Features:

- **9 measurement scale capacity.** Full Brix and RI range and seven user defined additional measurement scales
- **Custom Channel CD** – library of over 30 custom scales
- **Memory capacity** to store calibration logs and last 1,000 measurements – can be printed or transferred to PC
- **PC-connectivity** via RS-232 or USB – includes PC Synchronization CD
- **Automatic Temperature Correction**
- **Color touch-screen.** Menu-driven interface provides simple, quick operation.

Custom Scales

Customize the *r*²i300 to fit most measurement needs. In addition to the Brix/RI channel, the *r*²i300 can hold up to seven (7) custom channels, all with Automatic Temperature Correction. You can load custom channels from the **Custom Channel CD** (included with the unit). Choose from over **30 custom scales**, including:

- High Fructose Corn Syrup
- Honey
- Dextrose
- Methanol
- Salinity
- Urine Specific Gravity

See reverse side for a complete list of measurement scales!

| Reichert <i>r</i> ² i300 Technical Specifications | |
|--|--|
| Catalog Number | 13980000 |
| Model | <i>r</i> ² i300 Compact Digital Refractometer, with: <ul style="list-style-type: none"> • PC Synchronization CD • Custom Channel CD • RS-232 Cable and RS-232-to-USB Cable Adapter |
| Range/Accuracy | 1.3330 to 1.5600 n _D / ± 0.0001 |
| Brix Range/Accuracy | 0.0 to 95.0% (per ICUMSA) / ± 0.1% |
| Calibration | Set Point or Set Point/Span User Defined |
| Prism Assembly | Sapphire in Stainless Steel Well |
| Dimensions (WxDxH) | 12 x 8.75 x 3.25 inches (30.9 x 22.5 x 8.4 cm) |
| Weight | 7.0 lbs (3.175 kg) |
| Power | 110V/220V, 50 Hz/60 Hz |
| Warranty | 2 Years |
| Reichert <i>r</i> ² i300 Accesories | |
| 13985000 | PRINTER -110V |
| 13986000 | PRINTER -220V |
| 13985000-102 | PRINTER PAPER |

Reichert
TECHNOLOGIES

Analytical Instruments • Refractometers

Innovative precision instruments for over a century

Digital Benchtop Refractometers

AR7 Series

AR6 Series



| Part # | Description |
|----------|--------------------------------|
| 13107000 | AR700 AUTOMATIC REFRACTOMETER |
| 13107700 | AR70 AUTOMATIC REFRACTOMETER |
| 13106000 | AR600 AUTOMATIC REFRACTOMETER |
| 13106600 | AR60 AUTOMATIC REFRACTOMETER |
| 13980000 | r2i300 AUTOMATIC REFRACTOMETER |

Transmission Style Abbe Refractometers

Arias OptiMatrix 500

Abbe Mark III



| Part # | Description |
|-----------|--|
| 1310499SA | ARIAS OPTIMATRIX 500 SEMI-AUTOMATIC ABBE REFRACTOMETER |
| 1310488M | Abbe MARK III REFRACTOMETER |

Library of measurement scales available

The Reichert r2i300 compact digital laboratory refractometer is supplied with a CD library of custom measurement scales. Over thirty custom scales are provided. Scales can be transferred to the r2i300 refractometer with the use of a PC. The refractometer measures Refractive Index and Sucrose (Brix) at 20 degree Celsius. These additional scales increase the utility of this refractometer. The scales offered on the CD are:

| | |
|--|--------------------------------------|
| Acetone % concentration | Honey % moisture |
| Ammonia % concentration | Klosterneuburger Wine degrees |
| Ammonium Sulfate % concentration | Methanol > 50% concentration |
| AOAC Ethanol % concentration | Methanol < 49% concentration |
| Sucrose % concentration at 25 degree Celsius | Oechsle Wine degrees |
| Calcium Chloride % concentration | Organic samples at 20 degree Celsius |
| Chloroform % concentration | Organic samples at 25 degree Celsius |
| Dextrose 95 % concentration | Phenol % concentration |
| Dextrose 97% concentration | Salinity Parts Per Thousand (PPT) |
| Formaldehyde % concentration | Sea Water Specific Gravity (SG) |
| Glycerin Freeze Point in degree Celsius | Serum Protein % concentration |
| Glycerin % concentration | Sodium Chloride % concentration |
| Glycerol % concentration | Sodium Hydroxide % concentration |
| High Fructose Corn Syrup | Soy Milk % concentration |
| HFCS 42 % concentration | TAVP 1990 Wine |
| High Fructose Corn Syrup | Urine Specific Gravity (SG) |
| HFCS 55 % concentration | |

Digital Hand-Held Refractometers

Brix/RI-Chek

Salt-Chek

AR200 with Optional Communications Cradle



| Part # | Description |
|----------|-------------------------------|
| 13940000 | Brix/RI-Chek REFRACTOMETER |
| 13940020 | Salt-Chek REFRACTOMETER |
| 13950000 | AR200 REFRACTOMETER |
| 13952000 | AR200 W/IR COMMUNICATIONS PKG |

Hand-Held Refractometers

Goldberg w/Optional Illuminated Stand

Rhino Model

HP Model



| Part # | Description |
|----------|---------------------------------------|
| 13104230 | GOLDBERG BRUX 0-30 |
| 13104190 | GOLDBERG SALINITY METER |
| 13104060 | GOLDBERG ILLUMINATED TABLE STAND 110V |
| 13104080 | GOLDBERG ILLUMINATED TABLE STAND 220V |
| 13851500 | 15HP 0-15 BRUX |
| 13856500 | 65HP 35-65 BRUX |
| 13851000 | IFT10HP INDUSTRIAL FLUID TESTER |
| 13754000 | RHINO IFT40 INDUSTRIAL FLUID TESTER |
| 137530L0 | RHINO 0-30 BRUX |
| 137531L0 | RHINO 0-50 BRUX |
| 137533L0 | RHINO 50-90 BRUX |
| 137528L0 | RHINO OE200 WINE TESTER |



Analytical Instruments•Refractometers



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