

REFRACTIX™

UNIVERSAL DIGITAL REFRACTOMETER

HUNDREDS OF SCALES, THOUSANDS OF APPLICATIONS.



Reichert
AMETEK



Reichert / AMETEK

9/01/2023 1:30:30 PM

Brix

TC 20C

23.7°C

TC: 20.0°C

12.2
g/100g





A Measure Above

Reichert® Refractix™ Digital Refractometer

Since releasing our first Abbe Refractometer over 100 years ago, and after decades of continuous American innovation, Reichert® presents the next generation refractometer — **Refractix™ Digital Refractometer** with hundreds of scales and thousands of applications. Refractix is built on the laboratory accuracy, reliability, and ease-of-use of the trusted Reichert® AR200 Digital Refractometer, with all the additional features you've been asking for. Refractix offers 50 pre-loaded measurement scales that meet the needs of the food, beverage, beer, wine, chemical, veterinary, and automobile service industries. Additionally, Refractix can store hundreds more measurement scales that can be programmed by you.

Refractix is truly the **universal refractometer for all**.



The Refractix™ Advantage: Scales & Software

- **250 measurement scale capacity** with 50 pre-loaded scales sorted into groups such as *Food/Beverage, Beer/Wine/Spirits, Chemical, Veterinary, and Automotive*. Quickly change scales and mark your favorites for easy access.
- **Create Custom Product names** from pre-loaded scales to match your specific needs, and assign quality control limits for easy evaluation.
- **Electronic data transfer** connects Refractix to your Windows device via USB-C or Bluetooth® with **RefractixSync™**. This application allows you to transfer real-time measurements or download the measurement data log.
- **Store up to 5,000 entries** in the Refractix *Measurement Log*, so you can track your measurements over time and identify trends.
- **Temperature Compensation** guarantees that your measurements are adjusted to each scale's reference temperature, giving you accurate results you can count on.
- **Temperature Stability Detection** ensures measurement accuracy by warning you if the temperature is changing too rapidly.

The Refractix™ Advantage: Device

- **Friendly and easy-to-use** with both a large color touchscreen and physical buttons, the intuitive interface gets you measuring in no time.
- **Sapphire prism with stainless steel well** are durable materials that will last. Our sapphire is 4x harder than glass prisms typically found on other handheld refractometers and the shallow well design allows for easy application and clean-up of samples.
- **High-resolution linear image sensor** with 1,500 CCD elements. Refractix is in a class of its own, offering the accuracy and precision of a laboratory benchtop refractometer designed in a compact, affordable, and portable platform.
- **Operate plugged in or on-the-go** with a built-in rechargeable lithium-ion battery for maximum flexibility.
- **Durable protective sleeve** makes Refractix comfortable to hold and well-protected from damage.
- **Rugged storage case** is padded with shock-resistant foam to keep your Refractix and accessories safe and secure while you're on the go.





Refractix™ Pre-Loaded Scale Groups

Automotive

Refractive Index: No TC
 Refractive Index: Aqueous TC 20C
 Refractive Index: Aqueous TC 25C
 Refractive Index: Organic TC 20C
 Refractive Index: Organic TC 25C
 Battery Electrolyte
 Diesel Exhaust Fluid
 Ethylene Glycol: Concentration
 Ethylene Glycol: Freezing Point
 Glycerine: Concentration
 Glycerine: Freezing Point
 Propylene Glycol: Concentration
 Propylene Glycol: Freezing Point
 Windshield Wash: Ethanol
 Windshield Wash: Methanol

Beer/Wine/Spirits

Refractive Index: No TC
 Refractive Index: Aqueous TC 20C
 Refractive Index: Aqueous TC 25C
 Refractive Index: Organic TC 20C
 Refractive Index: Organic TC 25C
 Brix: TC 20C
 Brix: TC 25C
 AOAC Ethanol
 Baumé
 KMW (Babo)
 Oechsle
 Plato (Wort)
 S.G. (Wort)
 TAVP 1990

Chemical

Refractive Index: No TC
 Refractive Index: Aqueous TC 20C
 Refractive Index: Aqueous TC 25C
 Refractive Index: Organic TC 20C
 Refractive Index: Organic TC 25C
 Brix: TC 20C
 Brix: TC 25C
 Ethanol
 Ethylene Glycol: Concentration
 Ethylene Glycol: Freezing Point
 Glucose: TC 20C
 Glucose: TC 25C
 Glycerine: Concentration
 Glycerine: Freezing Point
 Methanol: <50%
 Methanol: >50%
 Phenol
 Propylene Glycol: Concentration
 Propylene Glycol: Freezing Point
 Sodium Chloride: %
 Sodium Chloride: PPT
 Sodium Chloride: SG
 Urea

Favorites

Select often used scales for quick access.

Custom Products

Personalize Refractix by naming pre-loaded scales to match your specific product, then assign quality control limits for easy evaluation.

Food/Beverage

Refractive Index: No TC
 Refractive Index: Aqueous TC 20C
 Refractive Index: Aqueous TC 25C
 Refractive Index: Organic TC 20C
 Refractive Index: Organic TC 25C
 Brix: TC 20C
 Brix: TC 25C
 AOAC Ethanol
 Dextrose 95
 Dextrose 97
 Fructose: TC 20C
 Fructose: TC 25C
 Glucose: TC 20C
 Glucose: TC 25C
 HFCS 42
 HFCS 55
 Honey
 Invert Sugar: TC 20C
 Invert Sugar: TC 25C
 Sodium Chloride: %
 Sodium Chloride: PPT
 Sodium Chloride: SG

Veterinary

Refractive Index: No TC
 Refractive Index: Aqueous TC 20C
 Refractive Index: Aqueous TC 25C
 Refractive Index: Organic TC 20C
 Refractive Index: Organic TC 25C
 Animal Serum Protein
 USG Canine
 USG Feline
 USG Large Animal

Refractix™ Pre-Loaded Scales

Animal Serum Protein

AOAC Ethanol

Battery Electrolyte

Baumé

Brix: TC 20C

Brix: TC 25C

Dextrose 95

Dextrose 97

Diesel Exhaust Fluid

Ethanol

Ethylene Glycol: Concentration

Ethylene Glycol: Freezing Point (°C or °F)

Fructose: TC 20C

Fructose: TC 25C

Glucose: TC 20C

Glucose: TC 25C

Glycerine: Concentration

Glycerine: Freezing Point (°C or °F)

HFCS 42

HFCS 55

Honey

Invert Sugar: TC 20C

Invert Sugar: TC 25C

KMW (Babo)

Methanol: <50%

Methanol: >50%

Refractive Index: Aqueous TC 20C

Refractive Index: Aqueous TC 25C

Refractive Index: Organic TC 20C

Refractive Index: Organic TC 25C

Refractive Index: No TC

Oechsle

Phenol

Plato (Wort)

Propylene Glycol: Concentration

Propylene Glycol: Freezing Point (°C or °F)

S.G. (Wort)

Sodium Chloride: %

Sodium Chloride: PPT

Sodium Chloride: SG

TAVP 1990

Urea

USG Canine

USG Feline

USG Large Animal

Windshield Wash: Ethanol

Windshield Wash: Methanol



Precise, high-quality devices that are a *measure above*.

Refractix is designed, engineered, and assembled in the USA. Reichert stands behind Refractix Digital Refractometer with a standard two-year warranty.

Specifications

Catalog Number: 13910000

Measurement Range: 1.3300 to 1.5600 nD
(0.0 to 85.0 g/100g Brix)

Precision: 0.0001 nD (0.1 g/100g Brix)

Accuracy: ± 0.0001 nD (± 0.1 g/100g Brix)

Temperature Compensation Range: 10°C to 40°C
(50°F to 104°F)

Physical Dimensions: 7in x 2.9in x 1.7in
(17.6cm x 7.3cm x 4.2cm)

Device Weight: 8.8oz (249.5g)

Packed Weight: 14.5oz (410g)

Color Touchscreen Display: 2.3in x 1.7in
(5.8cm x 4.4cm)

High Resolution Camera: 1500 CCD elements

Light Source: 589 nm LED

Sample Measurement Surface Material: Sapphire

Sample Well Material: Stainless Steel

User Interface: Operate via touchscreen and/or physical buttons

Power: Operate from rechargeable 3.6V Li-Ion battery or included USB-C cable with power supply

AC Adaptor Input Voltage: 100–240V ~ 50–60Hz at 0.32–0.19A

AC Adaptor Output: 5.1V $\overline{\text{m}}$ 2.4A at 12.24W

Software Updates: RefractixSync

Bluetooth/USB-C Connectivity: RefractixSync PC application

Warranty: Two Years



Scan here to learn more or visit:
reichertai.com/refractixrefractometer



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