



TORONTECH



OPTICAL REFRACTOMETER

Optical Refractometer

An Optical Refractometer is a manual optical instrument that measures how light bends through a sample, then converts that change into a direct scale reading for concentration, specific gravity, refractive index, moisture, salinity, alcohol, or other application-based values. The ToronOR™ product family covers a broad range of handheld refractometers for automotive fluids, food and beverage, clinical and veterinary work, wine and alcohol, salinity, brake fluid, industrial oil, honey moisture, and LED-assisted low-light testing.

A handheld optical refractometer is built for fast checks with a small sample volume and a direct visual reading through the eyepiece. Compared with a benchtop refractometer, it is more practical for field work, production floors, workshops, incoming inspection, and routine quality checks where speed and simplicity matter.

What makes the ToronOR™ range useful is that each series is scaled for a specific job. Some models are designed for coolant, DEF, and battery electrolyte. Others are built for Brix, honey moisture, salinity, brake fluid, oil refractive index, wine scales, or clinical parameters. That direct-read format helps operators get a usable answer without converting raw refractive-index values.

Application

- Automotive and industrial fluid service: ToronOR™ includes models for ethylene glycol, propylene glycol, DEF/AdBlue, battery electrolyte, IPA, and cleaning fluid checks. These models fit workshops, fleet maintenance, coolant service, battery service, and industrial fluid preparation.
- Food, beverage, and process concentration checks: The ToronOR™ Brix and honey lines support juice, syrup, brewing, dairy, soybean beverage, honey moisture, and related production checks. These models are useful where quick soluble-solids or water-content screening is part of daily process control.
- Clinical and veterinary screening: The ToronOR™ CV Series is designed for urine specific gravity, serum or plasma protein, refractive index, and veterinary dog/cat urine interpretation. These models fit clinics and veterinary practices that need simple in-house screening.

- Wine and alcohol production: The ToronOR™ WA Series supports alcohol by volume, Brix, Baumé, Oechsle, and KMW/Babo scales. This makes the series useful for grape must evaluation, winery intake checks, fermentation monitoring, and alcohol-related production work.
- Salinity and marine monitoring: The ToronOR™ S Series is built for salinity, ppt, and specific-gravity checks in brine, aquariums, marine systems, and salt-water quality control. Some models focus on seawater-style ranges, while others provide broader salt concentration coverage.
- Brake-fluid and maintenance inspection: The ToronOR™ BFT Series is intended for quick brake-fluid condition screening, including boiling-point and water-content interpretation. These models fit garages, brake-check systems, fleet service, and workshop maintenance.
- Oil identification and refractive-index screening: The ToronOR™ OI Series is designed for oil-test refractive-index ranges. These models support lighter and heavier oil screening where a quick manual refractive-index check is useful.
- Low-light and mobile testing: The ToronOR™ LED Series adds built-in illumination to improve readability in dark, low-light, or twilight conditions. This is useful for field inspections, outdoor checks, and any workspace where ambient light is inconsistent.

Product Line Up

1. Automotive & Industrial Optical Refractometer - ToronOR™ AI Series

This series is built for coolant, DEF/AdBlue, battery electrolyte, cleaning fluid, and IPA concentration checks. It includes models for Fahrenheit and Celsius coolant scales, multi-scale workshop use, dedicated DEF measurement, and IPA concentration control.

2. Food & Beverage Brix Optical Refractometer - ToronOR™ Brix Series

This is the broadest food-focused lineup. It covers low-range and high-range Brix, Plato, wort specific gravity, Oechsle, KMW/Babo, honey water content, milk purity-style screening, soybean beverage checks, and contact-lens solution water content.

3. Clinical & Veterinary Optical Refractometer - ToronOR™ CV Series

This series is designed for urine specific gravity, serum or plasma protein, refractive index, and veterinary dog/cat urine interpretation. It includes simpler dual-scale models and more specialized veterinary-focused options.

4. Wine & Alcohol Optical Refractometer - ToronOR™ WA Series

This lineup is built for wineries and alcohol-related process control. Models cover alcohol by volume, Brix, Baumé, Oechsle, KMW/Babo, and multi-scale winery reference use.

5. Salinity Optical Refractometer - ToronOR™ S Series

This series supports salt-water, brine, aquarium, and marine monitoring work. The lineup includes narrow seawater-focused ranges, broader salinity ranges, and a combo Brix/salinity model.

6. Brake Fluid Testing Optical Refractometer - ToronOR™ BFT Series

This series is designed for brake-fluid screening, including DOT3-related checks, boiling-point interpretation, and water-content assessment for workshop and fleet service use.

7. Industrial Oil Optical Refractometer - ToronOR™ OI Series

This category includes two oil-test refractometers with different Nd refractive-index ranges. One fits lighter oils and lower-range hydrocarbon checks, while the other is intended for higher-index industrial oils.

8. Honey Moisture Optical Refractometer - ToronOR™ HM Series

This series is dedicated to honey water-content measurement. One model gives a tighter moisture range for typical honey checks, while the other offers a broader range for more variable incoming lots.

9. LED Optical Refractometer - ToronOR™ LED Series

This series adds built-in LED illumination to multiple refractometer types. It supports Brix, honey, salinity, automotive fluid, wine, clinical, milk, and beer applications, making it a flexible low-light solution for many industries.

Why Choose ToronOR™ for Your Optical Refractometer?

ToronOR™ gives buyers a broad refractometer platform instead of a single limited product line. That means one brand can support workshop fluid checks, food production, wine processing, clinical use, salinity monitoring, honey moisture control, and oil screening.

The product structure is also practical from a buyer's point of view. Some users need a simple single-scale instrument. Others need a multi-scale tool that reduces how many separate instruments they buy. ToronOR™ covers both needs across its different series.

Another advantage is application-focused design. Instead of forcing users to interpret raw refractive index in every case, most ToronOR™ models are pre-scaled for the exact task, such as Brix, DEF, brake fluid, honey moisture, or urine specific gravity. That makes routine work faster and easier for operators.

The lineup also includes LED models for low-light environments and multiple specialized series for industries that need more than a generic refractometer. This makes ToronOR™ a stronger choice for distributors, workshops, production teams, and laboratories that want a more complete handheld refractometer portfolio.



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