



HONEY DIGITAL REFRACTOMETER

Honey Digital Refractometer - ToronDR™ H

A Digital Refractometer for honey gives a direct numerical reading of concentration and moisture-related values without relying on manual eyepiece interpretation. Honey Digital Refractometer - ToronDR™ H is designed for honey Brix, water content, Baumé, and refractive index measurement, with ranges of 0–90% Brix, 38.0%–5.0% water, 33–48°Bé, and 1.3330–1.5177 nD.

This type of Honey Refractometer is suitable for beekeepers, honey processors, packers, and quality-control teams that need a faster and easier reading workflow than a traditional manual refractometer. Honey quality guidance from Codex states that, in general, moisture content in honey should be not more than 20%, with limited exceptions for certain honey types, which makes moisture monitoring especially important in practical honey handling and packing work.

Honey Digital Refractometer - ToronDR™ H is a handheld Refractometer designed for honey concentration and moisture evaluation. Unlike a basic manual optical model that depends on reading a light/dark boundary through an eyepiece, this digital format is intended to provide a more direct result for daily production and inspection work. The ToronDR™ H specifically as a honey-focused digital refractometer with Brix, water, Baumé, and refractive-index scales in one instrument.

This combination is useful because honey testing often involves more than one parameter. Brix gives a sugar-solids style reading, water content supports ripeness and storage decisions, Baumé provides an additional density-related interpretation, and refractive index provides the underlying optical measurement basis. Codex honey guidance and FAO honey references both emphasize moisture as a key quality factor because excess water can increase fermentation risk and reduce storage stability.

APPLICATIONS

Honey Digital Refractometer - ToronDR™ H Application

- Honey harvest and ripeness checks: a digital honey refractometer is useful during harvest because moisture level helps indicate whether honey is mature enough for extraction and handling. Codex states that, in general, honey moisture should not exceed 20%, so a quick digital reading can help users compare samples against common quality expectations before further processing.
- Honey processing and packing quality control: during filtering, blending, storage, and filling, operators often need a quick way to check consistency between batches. The ToronDR™ H format is suited to this because it combines water content, Brix, Baumé, and refractive index in one portable instrument, which helps simplify routine line-side quality checks.
- Incoming lot inspection and commercial honey screening: honey packers and distributors can use this instrument to compare incoming lots and identify samples that may need closer review before blending or acceptance. Since the instrument includes both moisture-related and concentration-related scales, it is practical for broader lot comparison rather than only one single-value check.



SDI 26.2°C
0.8%

READ CAL SCALE



TORONTECH

ToronDR™ H
Honey Digital Refractometer

FEATURES

Honey Digital Refractometer - ToronDR™ H Key Features

- Handheld Digital Refractometer designed specifically for honey measurement.
- Multi-parameter display for 0–90% Brix, 38.0%–5.0% water, 33–48°Bé, and 1.3330–1.5177 nD.
- Digital workflow that is easier to read than a manual optical Honey Refractometer during repeated testing. This is an inference from the digital product format.
- Suitable for honey harvest checks, packing QC, blending comparison, and incoming lot screening because it combines moisture and concentration-related scales in one instrument. This is an application inference supported by the listed measurement scales and honey-quality references.

THEORY & METHOD

Theory and Method

A Digital Refractometer measures how light changes as it passes through a liquid sample, then converts that optical response into a digital value. ISO 2173 describes the refractometric principle as measuring refractive index and relating it to soluble solids content, while the ToronDR™ H expresses the result as Brix, water, Baumé, and refractive index for honey use.

In practical honey work, moisture is a central quality parameter because high water content can affect storage and fermentation behavior. FAO honey guidance explains that moisture in honey can be determined from the refraction of light through a prism carrying a honey sample, which aligns with the operating concept behind a digital honey refractometer.

TECHNICAL SPECIFICATIONS

Honey Digital Refractometer - ToronDR™ H Technical Specification

Specification	Honey Digital Refractometer - ToronDR™ H
Product type	Honey digital refractometer / honey DR
Brix range	0-90% Brix
Water-content range	38.0%-5.0% water
Baumé range	33-48°Bé
Refractive-index range	1.3330-1.5177 nD
Main application	Honey concentration and moisture measurement
Instrument style	Digital handheld refractometer



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