Digital Refractometer - Waterproof Handheld Brix Meter - IP65 - 0-92% Brix Range

Model **MSRFT-PD85FSWISS, MSRFT-PD92FSWISS, MSRFT-PDHN1FSWISS, MSRFT-PDA1FSWISS, MSRFT-PDS1FSWISS** | Brand **Master Science**





The Master Science Digital Refractometer is a handheld, IP65-rated meter for quick Brix, salinity, honey moisture and refractive index readings in the lab, at the production line or in the field. Place a few drops on the prism, press the button, and the temperature-compensated result appears on a bright color TFT display.

KEY HIGHLIGHTS

- Use it anywhere
- Correct readings at any temperature
- Right scale for each product
- Clear display
- Low running cost

AT A GLANCE

Automatic
TEMPERATURE COMPENSATION

automatic compensation corrects each reading.
ERRORS FROM TEMPERATURE CHANGES

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

Scan to view online

Overview

Five scale versions are offered, so each user can choose the range that matches fruit juice, syrup, honey, brine or general concentration checks.

> For laboratory accuracy to five decimal places, see the Master Science automatic refractometer.

Key Benefits

Use it anywhere
IP65 protection allows rinsing under water and work in wet production areas.

Correct readings at any temperature
automatic compensation adjusts for sample and ambient temperature.

Right scale for each product
the Master Science Digital Refractometer comes in Brix, honey, salinity and combined versions.

Clear display
the color TFT screen is easy to read in bright or dim light.

Low running cost
more than 10,000 readings per battery set with automatic shut-off.

Technical Specifications

GENERAL

General	Available models and measuring ranges of the Master Science Digital Refractometer:
Brand	Master Science
Model Number	MSRFT-PD85FSWISS, MSRFT-PD92FSWISS, MSRFT-PDHN1FSWISS, MSRFT-PDA1FSWISS, MSRFT-PDS1FSWISS
SKU	MSRFT-PD85FSWISS, MSRFT-PD92FSWISS, MSRFT-PDHN1FSWISS, MSRFT-PDA1FSWISS, MSRFT-PDS1FSWISS
MSRFT-PD85FSWISS	Brix 0 to 85 % (0.1, ±0.5); RI 1.3330 to 1.5100 (0.0001, ±0.0005)
MSRFT-PD92FSWISS	Brix 58 to 92 % (0.1, ±0.2); RI 1.4370 to 1.5233 (0.0001, ±0.0003)
MSRFT-PDHN1FSWISS	Brix 58 to 92 % (±0.2); Baumé 38 to 43 (±0.1); honey water 13 to 25 % (±0.1); RI 1.4370 to 1.5233 (±0.0003)
MSRFT-PDA1FSWISS	Salinity 0 to 28 % (0.1, ±0.2); RI 1.3330 to 1.3900 (±0.0003)
MSRFT-PDS1FSWISS	Brix 0 to 35 % (±0.2); salinity 0 to 28 % (±0.2); RI 1.3330 to 1.3900 (±0.0003)
Protection	IP65 water and dust proof
Temperature Compensation	Automatic
Temperature Units	°C / °F switchable
Display	Large backlit color TFT
Battery Life	More than 10,000 measurements; auto power-off

COMMON PROBLEMS AND HOW THIS REFRACTOMETER HELPS

Common Problems and How This Refractometer Helps	How the Master Science Digital Refractometer helps in daily quality checks:
Meters damaged by water	IP65 sealing protects the electronics.
Errors from temperature changes	automatic compensation corrects each reading.
Hard-to-read analogue scales	a digital color display removes guesswork.
Batteries running out quickly	auto shut-off extends battery life.
One meter for many products	scale versions match specific products.

Applications

The Master Science Digital Refractometer is used for
Fruit juice, beverage and jam Brix checks Honey moisture and quality grading Brine, seawater and food salinity Syrup and confectionery production Agricultural field testing of crops

Measurement

- Brix, salinity, Baumé, honey water and refractive index scales (by model)
- 0.1 % Brix and 0.0001 RI resolution
- Automatic temperature compensation

Design

- IP65 sealed housing
- Ergonomic, durable body
- Large backlit color screen
- °C/°F display