

Refractometers



Handheld Refractometers

Digital Refractometers

Benchtop Refractometer

MDX-Series Digital Refractometers

Compact, Durable and Accurate

The MDX-Series Digital Refractometers feature IP65/67 ratings, making them ideal for use in the field and in a multitude of environments.

Delivering quick digital accuracy with high-end performance features like:

- Automatic Temperature Compensation (ATC)
- Continuous Loop Average Readings



Intuitive to Use

Easy operation with large readable digital LCD display that shows all data needed on screen



Quick Results

Simply place 4-5 drops of your sample into the well, close the prism cover, and press the "READ" button

Easy to Clean

Prism cover and rubber grip add extra protection and are removable for easy cleaning



MDX-Series Specifications

ATC Range	32 to 104°F / 0 to 40°C
IP Rating	IP67: detecting unit IP65: body
Prism	Optical Glass
Wavelength	589.3 nm LED
Sample Cell	Stainless Steel
Calibration Solution	Distilled Water (not included)
Min. Sample Volume	0.3 mL
Battery	1 X AAA, 1.5V
Dimensions (L x W x H in/mm)	4.8 x 2.3 x 1 / 121 x 58 x 25
Weight (lb/kg)	0.198 lb / 0.089 kg
Included	Hard shell case with protective lining, disposable pipette, (1) AAA Battery, and user manual
Warranty	1-Year Parts and Labor

MDX-Series Digital Refractometers

For Food, Beverage, and Agriculture Applications

Digital Brix/Sugar Refractometer

Item No.	Model No.	Scale	Range	Resolution	Accuracy
48101	MDX-101	Brix	0.0 to 50.0% Brix	0.1% Brix	±0.2% Brix
		Refractive Index	1.3330 to 1.4200 nD	0.0001 nD	±0.0003 nD
48102	MDX-102	Brix	0.0 to 90.0% Brix	0.1% Brix	±0.2% Brix
		Refractive Index	1.3330 to 1.5300 nD	0.0001 nD	±0.0003 nD
48103	MDX-103	Dextran	0.0 to 10.5%	0.1%	±0.2%
		Fructose	0.0 to 68.0%	0.1%	±0.2%
		Glucose	0.0 to 59.0%	0.1%	±0.2%
		Lactose	0.0 to 16.5%	0.1%	±0.2%
		Maltose	0.0 to 15.5%	0.1%	±0.2%
		Sucrose (Brix)	0.0 to 90.0%	0.1%	±0.2%

Digital Honey Refractometer

Item No.	Model No.	Scale	Range	Resolution	Accuracy
48301	MDX-301	Brix	0.0 to 90.0% Brix	0.1% Brix	±0.2% Brix
		Moisture	5.0 to 38.0%	0.1%	±0.2%
		Baume	33.0 to 48.0°	0.1°	±0.2°
		Refractive Index	1.3330 to 1.5300 nD	0.0001 nD	±0.0003 nD

Digital Wine Refractometer

Item No.	Model No.	Scale	Range	Resolution	Accuracy
48401	MDX-401	Brix	0.0 to 50.0% Brix	0.1% Brix	±0.2% Brix
		PA (% v/v)	0.0 to 22.0%	0.1%	±0.2%
		Oechsle (Oe)	0 to 150°	1°	±2°
		KMW (Babo)	0.0 to 25.0°	0.1°	±0.2°

For Water/Wastewater, Aquatic and Aquaculture Applications

Digital Sodium Chloride Refractometer

Item No.	Model No.	Scale	Range	Resolution	Accuracy
48201	MDX-201	NaCl (%)	0.0 to 28.0%	0.1%	±0.2%
		NaCl (ppt)	0 to 280 ppt	1 ppt	±2 ppt
		Specific Gravity	1.000 to 1.217	0.001	±0.002
		Refractive Index	1.3330 to 1.4200 nD	0.0001 nD	±0.0003 nD

Digital Seawater Refractometer

Item No.	Model No.	Scale	Range	Resolution	Accuracy
48202	MDX-202	Salinity	0 to 100 ppt	1 ppt	±2 ppt
		Chlorinity	0 to 57 ppt	1 ppt	±2 ppt
		Specific Gravity	1.000 to 1.075	0.001	±0.002
		Refractive Index	1.3330 to 1.4200 nD	0.0001 nD	±0.0003 nD

For Light Industrial, Chemical, and Automotive Applications

Digital DEF (UREA)/Battery Acid Refractometer

Item No.	Model No.	Scale	Range	Resolution	Accuracy
48602	MDX-602	DEF (Urea)	0.0 to 51.0%	0.1%	±0.2%
		Refractive Index	1.3330 to 1.4200 nD	0.0001 nD	±0.0003 nD
		Battery Acid Specific Gravity	1.000 to 1.500	0.001	±0.005

Digital Coolant Refractometer

Item No.	Model No.	Scale	Range	Resolution	Accuracy
48603	MDX-603	Ethylene Glycol (% v/v)	0.0 to 65.0%	0.1%	±0.5%
		Ethylene Glycol Freezing Point	-80.0 to 32.0°F / -50.0 to 0.0°C	0.1°F / 0.1°C	±1.0°F / ±0.5°C
		Propylene Glycol (% v/v)	0.0 to 73.0%	0.1%	±0.5%
		Propylene Glycol Freezing Point	-100.0 to 32.0°F / -50.0 to 0.0°C	0.1°F / 0.1°C	±1.0°F / ±0.5°C