



**MDX
Series**

Digital Refractometer

- Compact and lightweight
- Removable grip & prism cover for easy cleaning
- Continuous loop read feature (15 reads)
- Automatic Temperature Control
- Zero with distilled water
- IP67 rating for detecting unit, IP65 for remainder
- 589.3nm LED
- Stainless steel prism well
- °C/ °F switchable temperature display
- 1-year warranty

The MDX-Series from VEE GEE delivers digital accuracy and high-end features for specific applications. Ten models are available with scales that can be used in a wide variety of industries including: Food and Beverage, Industrial, Waste-Water, Aquatics and many more.

Review the specifications chart for information on the ranges, accuracy, scales and application of each model.

Refractometers, Portable, Digital, Compact

VEE GEE®, MDX-Series

Cat. No.	Model	Description/Scales	# of Scales
48101	MDX-101	nD,Brix, 0.0-50.0%	2
48102	MDX-102	nD,Brix (wide range) 0.0-90.0%	2
48103	MDX-103	Sugars: Dextran, Fructose, Glucose, Lactose, Maltose, nD	6
48201	MDX-201	NaCl %, NaCl PPT, Specific Gravity, nD	4
48202	MDX-202	Seawater, Chlorinity, Specific Gravity, nD	4
48301	MDX-301	Honey: Brix, Water, Be', nD	4
48401	MDX-401	Wine/Beer: Brix, % vol ap, Oe, KMW	4
48602	MDX-602	DEF, Battery Acid, nD	3
48603	MDX-603	Glycols °C & °F: Prop/Ethyl %, Prop/Ethyl Freeze Point °C & °F	4



VEE GEE Scientific, Inc.

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MDX-Series Specification Chart

Catalog Number	48101	48102	48103	48201	48202
VEE GEE Model No.	MDX-101	MDX-102	MDX-103	MDX-201	MDX-202
Description	Brix	Brix - Wide Range	Sugars	NaCl	Seawater
Total Scales	2	2	6	4	4
Scale 1 Type	Brix	Brix	Dextran	NaCl (%)	Salinity
Scale 1 Range	0.0-50.0%	0.0-90.0%	0.0-10.5%	0.0-28.0%	0-100‰
Scale 1 Resolution	0.1%	0.1%	0.1%	0.1%	1‰
Scale 1 Accuracy	±0.2%	±0.2%	±0.2%	±0.2%	±2‰
Scale 2 Type	Refractive Index	Refractive Index	Fructose	NaCl (‰)	Chlorinity
Scale 2 Range	1.3330-1.4200nD	1.3330-1.5300nD	0.0-68.0%	0-280‰	0-57‰
Scale 2 Resolution	0.0001nD	0.0001nD	0.1%	1‰	1‰
Scale 2 Accuracy	±0.0003nD	±0.0003nD	±0.2%	±2‰	±2‰
Scale 3 Type	--	--	Glucose	Specific Gravity	Specific Gravity
Scale 3 Range	--	--	0.0-59.0%	1.000-1.217	1.000-1.075
Scale 3 Resolution	--	--	0.1%	0.001s.g.	0.001s.g.
Scale 3 Accuracy	--	--	±0.2%	±0.002s.g.	±0.002s.g.
Scale 4 Type	--	--	Lactose	Refractive Index	Refractive Index
Scale 4 Range	--	--	0.0-16.5%	1.3330-1.4200nD	1.3330-1.4200nD
Scale 4 Resolution	--	--	0.1%	0.0001nD	0.0001nD
Scale 4 Accuracy	--	--	±0.2%	±0.0003nD	±0.0003nD
Scale 5 Type	--	--	Maltose	--	--
Scale 5 Range	--	--	0.0-15.5%	--	--
Scale 5 Resolution	--	--	0.1%	--	--
Scale 5 Accuracy	--	--	±0.2%	--	--
Scale 6 Type	--	--	Sucrose (Brix)	--	--
Scale 6 Range	--	--	0.0-90.0%	--	--
Scale 6 Resolution	--	--	0.1%	--	--
Scale 6 Accuracy	--	--	±0.2%	--	--



Digital Refractometer

All MDX-Series models come complete with: Digital Refractometer, Rubber Grip & Prism Cover, Hard Shell Case with Protective Lining, Disposable Pipet, Battery, and user Manual.



Catalog Number	48301	48401	48602	48603
VEE GEE Model No.	MDX-301	MDX-401	MDX-602	MDX-603
Description	Honey	Wine	DEF/Battery	Glycol - °C/°F
Total Scales	4	4	3	4
Scale 1 Type	Brix	Brix	DEF (Urea)	E.G. (% v/v)
Scale 1 Range	0.0-90.0%	0.0-50.0%	0.0-51.0%	0.0-65.0%
Scale 1 Resolution	0.1%	0.1%	0.1%	0.1%
Scale 1 Accuracy	±0.2%	±0.2%	±0.2%	±0.5%
Scale 2 Type	Moisture	PA (% v/v)	Refractive Index	E.G. Freeze Point (°C/°F)
Scale 2 Range	5.0-38.0%	0.0-22.0%	1.3330-1.4200nD	-50.0 to 0.0°C / -80.0 to 32.0°F
Scale 2 Resolution	0.1%	0.1%	0.0001nD	0.1°C / 0.1°F
Scale 2 Accuracy	±0.2%	±0.2%	±0.0003nD	±0.5°C / ±1.0°F
Scale 3 Type	Baumé (Bé)	Oechsle (Oe)	Battery Acid	P.G. (% v/v)
Scale 3 Range	33.0-48.0°	0-150°	1.000-1.500s.g.	0.0-73.0%
Scale 3 Resolution	0.1°	1°	0.001s.g.	0.1%
Scale 3 Accuracy	±0.2°	±2°	±0.005s.g.	±0.5%
Scale 4 Type	Refractive Index	KMW (Babo)	--	P.G. Freeze Point (°C/°F)
Scale 4 Range	1.3330-1.5300nD	0.0-25.0°	--	-50.0 to 0.0°C / -100.0 to 32.0°F
Scale 4 Resolution	0.0001nD	0.1°	--	0.1°C / 0.1°F
Scale 4 Accuracy	±0.0003nD	±0.2°	--	±0.5°C / ±1.0°F



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WARNING: This product can expose you to chemicals including lead, which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov

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