



**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
48603C	MDX-603C	Glycols °C: Prop/Ethyl %, Prop/Ethyl Freeze Point °C	4
48603F	MDX-603F	Glycols °F: Prop/Ethyl %, Prop/Ethyl Freeze Point °F	4
48604C	MDX-604C	Brake Fluid °C: DOT3/DOT4 Boil Point °C	4
48604F	MDX-604F	Brake Fluid °F: DOT3/DOT4 Boil Point °F	4



VEE GEE Scientific, Inc.

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	48604
VEE GEE Model No.	MDX-301	MDX-401	MDX-602	MDX-603	MDX-604
Description	Honey	Wine	DEF/Battery	Glycol - °C/°F	Brake Fluid - °C/°F
Total Scales	4	4	3	4	4
Scale 1 Type	Brix	Brix	DEF (Urea)	E.G. (% v/v)	DOT3 Boil Point (°C/°F)
Scale 1 Range	0.0-90.0%	0.0-50.0%	0.0-51.0%	0.0-65.0%	121-260°C / 250-485°F
Scale 1 Resolution	0.1%	0.1%	0.1%	0.1%	1°C / 1°F
Scale 1 Accuracy	±0.2%	±0.2%	±0.2%	±0.5%	±10°C / ±10°F
Scale 2 Type	Moisture	PA (% v/v)	Refractive Index	E.G. Freeze Point (°C/°F)	DOT3 HT Boil 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	121-299°C / 225-550°F
Scale 2 Resolution	0.1%	0.1%	0.0001nD	0.1°C / 0.1°F	1°C / 1°F
Scale 2 Accuracy	±0.2%	±0.2%	±0.0003nD	±0.5°C / ±1.0°F	±10°C / ±10°F
Scale 3 Type	Baumé (Bé)	Oechsle (Oe)	Battery Acid	P.G. (% v/v)	DOT4 Boil Point (°C/°F)
Scale 3 Range	33.0-48.0°	0-150°	1.000-1.500s.g.	0.0-73.0%	125-275°C / 290-530°F
Scale 3 Resolution	0.1°	1°	0.001s.g.	0.1%	1°C / 1°F
Scale 3 Accuracy	±0.2°	±2°	±0.005s.g.	±0.5%	±10°C / ±10°F
Scale 4 Type	Refractive Index	KMW (Babo)	--	P.G. Freeze Point (°C/°F)	DOT4 Plus Boil 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	150-275°C / 320-550°F
Scale 4 Resolution	0.0001nD	0.1°	--	0.1°C / 0.1°F	1°C / 1°F
Scale 4 Accuracy	±0.0003nD	±0.2°	--	±0.5°C / ±1.0°F	±10°C / ±10°F



VEE GEE Scientific, Inc.

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Find Quality Products Online at:

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