

Analog Refractometers



Measure the concentration of dissolved solids for a wide range of applications including food processing, laboratory, and machine cooling. Easy-to-operate instruments provide quick scale readings.

Range	Accuracy	ATC*	Function	Brand	Mfr. Model	Item No.
Benchtop - Brix						
0% to 95%, 1.3000 to 1.7000	±0.15 Brix, ±0.0003 RI	No	Film, Glass, Liquids, Plastic	VEE GEE	C10	9RY63
Handheld - Aqueous Solutions						
-50° to 0°C Ethylene Glycol, -50° to 0°C Propylene Glycol, 1.10 to 1.40 Battery Acid	±0.01	Yes	Measures the Concentration of An Aqueous Solution By Measuring Its Refractive Index	VEE GEE	CTX-1	36TY16
0% to 28% NaCl	±0.2%	No		VEE GEE	SX-2	36TY13
Handheld - Brix						
0% to 30%	0.1 Brix	Yes	Beverages, Food Sweeteners, Juices	Reichert	137530LO	16D191
0% to 50%	0.25 Brix	Yes		Reichert	137531LO	8URH7
0% to 20%	±0.1	Yes	Sucrose	VEE GEE	43012	8CXU0
0% to 10%	±0.1	No	Aqueous Solutions	VEE GEE	43009	9F740
0% to 10%	±0.1%	Yes	Sucrose	Extech	RF11	4GGD6
0% to 18%	±0.2%	Yes	Lubricants/Cutting Fluids	Extech	RF12	4GGD7
0% to 30%	0.0001, 0.1	Yes	Chemical, Food and Beverage, Industrial Cutting Fluids, Pharmaceutical	Reichert	13754000	8AZF1
0% to 32%	±0.2%	No	Aqueous Solutions	VEE GEE	43001	8NDJ6
0% to 32%	±0.2	Yes		VEE GEE	43002	8CYA4
0% to 32%	±0.2%	Yes	Sucrose (ATC)	Extech	RF15	3MY56
50% to 90%	0.2 Brix	Yes	Beverages, Food Sweeteners, Juices	Reichert	137533LO	9HR18
58% to 92%	±0.2%	No	Aqueous Solutions	VEE GEE	43005	8RKX6
0% to 50%	±0.5	No	Sucrose	VEE GEE	43015	8CXU1
Handheld - Industrial Fluids						
0° to -48°C Ethylene Glycol, 0° to -48°C Propylene Glycol, 0-61 Propylene Glycol, 0-70 Ethylene Glycol, 1.100-1.400 Electrolyte	0.55°C	Yes	Battery Electrolyte Specific Gravity And Charge Level, Concentration Of Ethylene Glycol And Propylene Glycol, Freeze Points Of Ethylene Glycol And Propylene Glycol	Reichert	137564LO	16D196
Ethylene Glycol Freeze Point: -60°F (59%) to 25°F (16%), Propylene Glycol Freeze Point: -60°F (63%) to 32°F (12%), Specific Gravity of Battery Acid: 1.15 to 1.30	±2%	Yes	Measures the Freezing Point of Automotive Coolants (Propylene Glycol and Ethylene Glycol) and Indicates the Specific Gravity of Battery Acid and Provides A Quick Reference of Battery Charge Condition	Extech	RF40	3MY57
32° to -60°F Ethylene Glycol, 32° to -60°F Propylene Glycol, 0-63 Propylene Glycol, 0-70 Ethylene Glycol, 1.100-1.400 Electrolyte Specific Gravity	1°F	Yes	Battery Electrolyte Specific Gravity And Charge Level, Concentration Of Ethylene Glycol And Propylene Glycol, Freeze Points Of Ethylene Glycol And Propylene Glycol	Reichert	137584LO	8TLK5
1% to 60% Urea	±0.5%	No	Measures Diesel Exhaust Fluid	VEE GEE	URX-60	36TY17
Handheld - Salinity						
0% to 100% (Salinity), 1 to 1.07 (Specific Gravity of Seawater)	±1 ppt	Yes	—	VEE GEE	43036	8CXU2
0 to 100 ppt (Salinity)	±0.1%	Yes	Salt	Extech	RF20	9PP82

* ATC = automatic temperature compensation.



8AZF1



8NDJ6



3MY56



8TLK5

Digital Refractometers



Compact, handheld meters raise the bar for performance and value. Conveniently measure the concentration of dissolved solids in a variety of applications including food processing, laboratory, waste, water, and machine cooling. Provide numeric readings for precise measurements.

Range	Accuracy	ATC*	Function	Brand	Mfr. Model	Item No.
Handheld - Brix						
0.0% to 62.0%, 1.3330 to 1.4465	±0.2%	Yes	Agriculture, Beer, Beverage, Food, Industrial, Wine	Reichert	13940000	8GUP3
0% to 50%	±0.2%	Yes	Brix, nD	VEE GEE	MDX-101	48ME39
0% to 95%	±0.1, 0.0001	Yes	Chemical, Cosmetic, Food and Beverage, Pharmaceutical	Reichert	13950000	8RTH2
Handheld - Industrial Fluids						
0.0 to 50.0 Diesel Exhaust Fluid (Urea)	0.1	Yes	Diesel Exhaust Fluid, Known As Def/ Adblue/Arla/Aus32	Reichert	13940013	16D199
0° to -54°C Windshield Washer Fluid, 0° to -57°C Ethylene Glycol, 1.000 to 1.463 Battery Electrolyte SG	0.003 SG Battery Electrolyte, 0.3°C Glycol, 1°C Windshield Fluid	Yes	Battery Electrolyte SG, Freeze Point of Ethylene Glycol, Freeze Point of Windshield Washer Fluid	Reichert	13940029	16D202
1.000 to 1.463 Battery Electrolyte SG, 32° to -60°F Propylene Glycol, 32° to -65°F Windshield Fluid, 32° to -70°F Ethylene Glycol	0.003 SG battery electrolyte, 0.5° F Glycol, 2° F Winshield Fluid	Yes	Battery Electrolyte SG, Freeze Point of Ethylene Glycol, Freeze Point of Propylene Glycol, Freeze Point of Windshield Washer Fluid	Reichert	13940014	16D201
0% to 100%	±0.5%	Yes	Glycol°F/C: Prop/ Ethyl Freeze pt°F/C	VEE GEE	MDX-603F	48ME48
Handheld - Salinity						
0% to 100%	±0.2%	Yes	Chlorinity, nD, Seawater, Specific Gravity	VEE GEE	MDX-202	48ME43

* ATC = automatic temperature compensation.



8GUP3



16D201



48ME39

Sign in to **Grainger.com®** to see **YOUR Pricing** and **MORE**