SPER SCIENTIFIC LTD.

YOUR SOURCE FOR PROFESSIONAL LABORATORY REFRACTOMETERS

POCKET DIGITAL REFRACTOMETERS - *NEW*

Measure brix, salinity and a wide variety of other parameters in the field with laboratory accuracy. As small, light and simple to use as optical refractometers, but with the precision of a digital readout. Reads samples as small as 1 ml. Sample temperature is initially displayed on the large LCD followed by the measurement results. The sophisticated microprocessor provides automatic calibration, automatic temperature compensation and automatic shutoff (after 3 minutes).

A sturdy water resistant case protects the electronics from wet environments and makes for easy clean ups. All models feature one button calibration to distilled water and indicate when the battery should be replaced (8000 readings). Comes ready to use with distilled water, transfer-pipet, AAA battery, instructions and a carrying case. Dim: 4⅝" x 2⅜" x 1¼" (118 x 62 x 32 mm). Weight: 4.6 oz (130g).

5 YEAR WARRANTY

Model	Unit of Measure	Range	Res.	Accuracy	
300051	**Brix**	0 ~ 65%	0.1%	±0.2%	146760
300052	**Brix**	40 ~ 95%	0.1%	±0.2%	146761
300053	**Brix**	0 ~ 95%	0.1%	±0.2%	146762
300054	**Salinity %**	0 ~ 28%	0.1%	±0.2%	146763
	Salinity ppt	0 ~ 280 ppt	1 ppt	±2 ppt	
300055	**Propylene Glycol**	32 (-50)°F	0.1°F	±2.0°F	146764
	Ethylene Glycol	32 (-50)°F	0.1°F	±2.0°F	
	Battery Acid	1.000 ~ (1.500) sg	0.001 sg	±0.005 sg	
	Cleaner	14 (-40)°F	0.1°F	±2.0°F	

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CUSTOM REFRACTOMETER SCALES

Ordering Information

Custom scale refractometers are available by special order. Please allow lead times of approximately 60 days. See the reverse page for a listing of available custom scales.

Custom Pocket Digital Refractometer 300056, 300056B, 300057 and 300057B

A wide variety of custom scales are available for the pharmaceutical, chemical, food and other industries. The customer may choose up to 4 scales per refractometer which will be programmed into the unit prior to shipment. The models have either single or multiple scales (2, 3, or 4), and standard or wide-range scales.

Model	Single Scale	Multiple Scales	Standard Range	Wide Range
300056	•		•	
300056B	•			•
300057		•	•	
300057B		•		•

5 YEAR WARRANTY

CUSTOM SCALES

1. Acetic Acid: 1.333 ~ 1.372 nD
2. Acetone: 1.333 ~ 1.341 nD
3. Ammonia: 1.333 ~ 1.353 nD
4. Ammonium Chloride: 1.333 ~ 1.377 nD
5. Ammonia Sulfate: 1.333 ~ 1.397 nD
6. Barium Chloride: 1.333 ~ 1.375 nD
7. Baumé: 0 ~ 19.28 %Bé
8. Boric Acid: 1.333 ~ 1.336 nD
9. Calcium Chloride: 1.333 ~ 1.4420 nD
10. Cesium Chloride: 1.333 ~ 1.417 nD
11. Citric Acid: 1.333 ~ 1.3744 nD
12. Cobaltous Chloride: 1.333 ~ 1.383 nD
13. Creatinine: 1.333 ~ 1.349 nD
14. Cupric Sulfate: 1.333 ~ 1.367 nD
15. Dextran: 1.333 ~ 1.349 nD
16. EDTA: 1.333 ~ 1.344 nD
17. Ethonal: 1.333 ~ 1.344 nD
18. Ethylene Glycol: 1.333 ~ 1.393 nD
19. Ferric Chloride: 1.333 ~ 1.383 nD
20. Formic Acid: 1.333 ~ 1.365 nD
21. Fructose: 1.333 ~ 1.365 nD
22. Glucose: 1.333 ~ 1.365 nD
23. Glycerol: 1.333 ~ 1.473 nD
24. Hydrochloric Acid: 1.333 ~ 1.403 nD
25. Inulin: 1.333 ~ 1.348 nD
26. KMW (Klostemeuburger Mosrwaagen): 0.00 ~ 35.70 %KMW
27. Lactic Acid: 1.333 ~ 1.417 nD
28. Lactose: 1.333 ~ 1.359 nD
29. Lead Nitrate: 1.333 ~ 1.387 nD
30. Lithium Chloride: 1.333 ~ 1.399 nD
31. Magnesium Chloride: 1.333 ~ 1.415 nD
32. Magnesium Sulfate: 1.333 ~ 1.385 nD
33. Maltose: 1.333 ~ 1.357 nD
34. Manganous Sulfate: 1.333 ~ 1.373 nD
35. Mannitol: 1.333 ~ 1.355 nD
36. Methanol: 1.333 ~ 1.355 nD
37. Nickel Sulfate: 1.333 ~ 1.345 nD
38. Nitric Acid: 1.333 ~ 1.387 nD
39. nD (Refractive Index): 1.3330 ~ 1.4038 nD
40. OE (Oechsle): 3:00 ~ 199.70 %OE
41. Phosphoric Acid: 1.333 ~ 1.375 nD
42. Potassium Bicarbonate: 1.333 ~ 1.359 nD
43. Potassium Biphthalate: 1.333 ~ 1.349 nD
44. Potassium Bromide: 1.333 ~ 1.391 nD
45. Potassium Carbonate: 1.333 ~ 1.403 nD
46. Potassium Chloride: 1.333 ~ 1.367 nD
47. Potassium Chromate: 1.333 ~ 1.413 nD
48. Potassium Dichromate: 1.333 ~ 1.352 nD
49. Potassium Ferricyanide: 1.333 ~ 1.387 nD
50. Potassium Ferrocyanide: 1.333 ~ 1.375 nD
51. Potassium Hydroxide: 1.333 ~ 1.425 nD
52. Potassium Iodide: 1.333 ~ 1.403 nD
53. Potassium Nitrate: 1.333 ~ 1.355 nD
54. Potassium Oxalate: 1.333 ~ 1.351 nD
55. Potassium Phosphate,Dihydrogen: 1.333 ~ 1.345 nD
56. Potassium Phosphate,Monohydrogen: 1.333 ~ 1.345 nD
57. Potassium Sulfate: 1.333 ~ 1.345 nD
58. Potassium Thiocyanate: 1.333 ~ 1.475 nD (wide range)
59. Procaine Hydrochloride: 1.333 ~ 1.483 nD (wide range)
60. Propylene Glycol: 1.333 ~ 1.399 nD
61. Sea Water: 1.3335 ~ 1.352 nD
64. Silver Nitrate: 1.333 ~ 1.391 nD
65. Sodium Acetate: 1.333 ~ 1.375 nD
66. Sodium Bicarbonate: 1.333 ~ 1.341 nD
67. Sodium Bromide: 1.333 ~ 1.403 nD
68. Sodium Carbonate: 1.333 ~ 1.367 nD
69. Sodium Chloride: 1.333 ~ 1.379 nD
70. Sodium Diatrizoate: 1.333 ~ 1.417 nD
71. Sodium Dichromate: 1.333 ~ 1.513 nD (wide range)
72. Sodium Ferrocyanide: 1.333 ~ 1.373 nD
73. Sodium Hydroxide: 1.333 ~ 1.431 nD
74. Sodium Molybdate: 1.333 ~ 1.349 nD
75. Sodium Nitrate: 1.333 ~ 1.379 nD
76. Sodium Phosphate Dihydrogen: 1.333 ~ 1.387 nD
77. Sodium Phosphate Monohydrogen: 1.333 ~ 1.343 nD
78. Sodium Phosphate Tribasic: 1.333 ~ 1.353 nD
79. Sodium Sulfate: 1.333 ~ 1.355 nD
80. Sodium Tartrate: 1.333 ~ 1.381 nD
81. Sodium Thiosulfate: 1.333 ~ 1.423 nD
82. Sodium Tungstate: 1.333 ~ 1.343 nD
83. Strontium Chloride: 1.333 ~ 1.407 nD
84. Sucrose: 1.333 ~ 1.501 nD (wide range)
85. Sulfuric Acid: 1.333 ~ 1.403 nD
86. THAM: 1.333 ~ 1.397 nD
87. Trichloroacetic Acid: 1.333 ~ 1.401 nD
88. Urea: 1.333 ~ 1.403 nD
93. Vol AP (Probable Alcohol): 0.00 ~ 27.20 %AP
94. Zinc Sulfate: 1.333 ~ 1.365 nD