

Handheld Digital Refractometers

DRFH450



DRFHUP-320 shown close to actual size.

- ✓ Powers Off after 3 Minutes of Non-Use
- ✓ °C/°F Conversion
- ✓ Low-Voltage Alarm
- ✓ Automatic Temperature Compensation
- ✓ Temperature and Refraction Measurements
- ✓ Easy Pushbutton Calibration

All water-based solutions can make light bend, a process known as refraction. The rate at which light bends is in direct proportion to the solution concentration. A refractometer is an instrument that measures the concentration of an aqueous solution by calculating its refractive index. Refractometers are used throughout the food, agriculture, chemical, and manufacturing industries.

OMEGA DRFH450 Series handheld digital refractometers are lightweight, precise optical instruments that can determine the refractive index in only a few drops of solution. These refractometers are suitable for a wide range of measurement applications, including Brix scale, alcohol, propylene glycol, protein in serum, salinity, Baumé scale, industrial fluids, and specific gravity.

Specifications

Dimensions: 185 L x 59 W x 45 mm D (7.3 x 2.3 x 1.8")
Weight: 230 g (0.5 lb)



DRFHUP-320 in case shown smaller than actual size.

Power: 9V battery (included)
Temperature Measurement: 0 to 40°C (32 to 104°F)
Temperature Accuracy: ±1°C (2°F)
Temperature Resolution: 0.1°C/°F

Temperature Compensation Range: 0 to 35°C (32 to 90°F)
Storage Temperature: -10 to 50°C (14 to 122°F)
Readings per Battery: About 1500

To Order

Model No.	Scale	Range	Accuracy	Resolution
DRFH45-121	Brix or reference index	0 to 45% or 1.333 to 1.410	±0.2%	0.1
DRFH450	Brix	0 to 45%	±0.2%	0.1
DRFHUP-320	Urine SP G. or serum P	1.000 to 1.050 or 0 to 12 g/dL	±0.001 or 0.1	0.001 or 0.1

Comes complete with suction tube, carrying case, 9V battery and operator's manual.
Ordering Example: DRFH450, digital refractometer for Brix range 0 to 45% with ATC.