



Di - series

Portable/Laboratory Density and Refractive Index Meter

RenDi



Advantages:

- High accuracy Density and Refractive Index measurements in seconds;
- All result readings on backlight LCD;
- Built-in IR data port and RS232-port for data transfer to computer, mini-printer and other output devices;
- Data conversion into the desired concentration unit;
- Expanded battery working time without charging;
- Calibrates easily with distilled water;
- Automatic temperature compensation;
- Removable float for easy cleaning.

Applications:

- Beverages;
- Strong drinks;
- Food, milk and dairy products;
- Chemicals, including aggressive;
- Cosmetics;
- Pharmaceuticals;
- Spirits;
- All petroleum products, including viscous.



In many different industries it is necessary to measure Density and Refractive Index of the product for quality control and determination components' concentration in multi-component mixture.

New *RenDi* successfully serves these purposes by precise measuring of Density, Refractive Index and Temperature in seconds.

Versatile measurement formats enable flexible reporting options on LCD:

- Real Density (g/cm³ or kg/m³) or Specific Gravity or API Gravity;
- Reduced Density to 15°C or 20°C or 60°F (ASTM D1250);
- Temperature (°C or °F);
- Refractive Index: BRIX or HFCS or BAUME or PLATO or ALCOHOL or other user defined concentrations.

Built-in RS232 and IR data port allow sending current readings to PC, pocket PC or mini-printer. WINDOWS based software provides obtained results calculation in suitable format. Long-life battery gives the opportunity to use *RenDi* as one-case field laboratory. Handy construction with removable float makes cleaning process very simple. Easy operation and calibration by distilled water makes *RenDi* simple in use and doesn't require proficient staff.

Specifications

Performances		Parameters
Submersible parts materials		Quartz glass
Density:	Range, g/cm ³ / (Kg/m ³)	0.5000 - 2.0000 / (500.0 - 2000.0)
	Accuracy, g/cm ³ / (Kg/m ³)	± 0.0005 / (± 0.5)
	Resolution, g/cm ³ / (Kg/m ³)	0.0001 / (0.1)
Refractive Index (BRIX):	Range	1.3330 - 1.3900 (0 - 35%); 1.3330 - 1.4098 (0 - 45%) 1.3800 - 1.4535 (28 - 65%); 1.4400 - 1.5230 (60 - 92%)
	Accuracy	± 0.0003 (± 0.1%)
	Resolution	0.0001 (0.1%)
Temperature:	Range, °C	+10 - +50
	Accuracy, °C	± 0.1
	Resolution, °C	0.1
Volume of sample	Density Meter	50 ml
	Refractive Index Meter	0.3 ~ 0.5 ml
Power supply		NiMH battery 6V - 1500 mA/h
Dimensions (L x W x H):	Density Meter	230 x 130 x 180 mm
	Refractive Index Meter	145 x 90 x 60 mm
Weight:	Density Meter	2.3 kg
	Refractive Index Meter	0.520 kg

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