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HANDHELD DENSITY METER – DDM29



and 25°C The problem with most handheld Density Meters is they drift because they do not control

Temperature Controlled Measurements at 20°

temperature. Density Meter measurements are highly sensitive to temperature and mathematically correcting for temperature may not be good enough for some applications. Only temperature control will result in the accuracy many users require. The Rudolph DDM 29 utilizes powerful and compact Peltier technology to control the sample temperature for precise heating and cooling this ensures stable and accurate measurements at either 20° or 25°C. Rugged U-Tube for durability in the Field

The Rudolph DDM29 has a 316 Stainless Steel, W-Tube instead of a glass U-Tube which is extremely

durable, corrosion resistant and cannot be broken. This type of durability is preferable for customers who are tired of replacing glass U-Tubes in other manufactures' handhelds. Rudolph's W-Tube facilitates excellent accuracies and measurement speeds demonstrating 3 decimal place measurement readings in 30 seconds, and 4 decimal measurements in 60 seconds. An Internal Barometer permits Automatic Calibration.

Screen Display Extremely easy to use Graphic User Interface (GUI) and the availability of 10 different Languages on a brightly lit 7 inch(128mm)

User friendly GUI and Bright, Back Lit, Touch

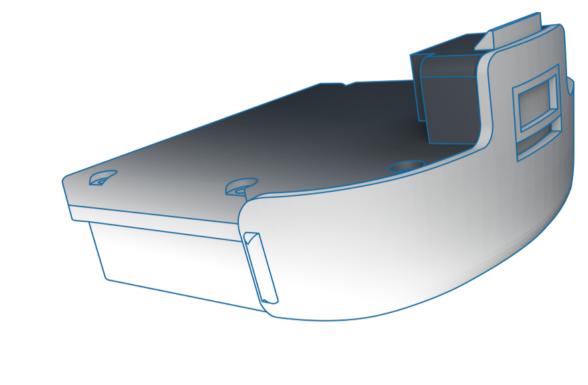
touch screen makes this the most User Friendly Density Meter in the market today. The interface is a bright, LED touchscreen, with large easy to navigate GUI. No more difficulties reading measurements in bright or dark environments.



Most Handheld Density Meters provide for 2 or 3 digit accuracy and measurements are prone to drift. By combining state of the art design, and Peltier

Laboratory Accuracy – Everywhere You Need to Measure

Temperature Control, Rudolph provides accuracy to the 4th decimal place. Laboratory accuracy in the field eliminates rechecking of materials in the Lab allowing users to test right in the field, on the receiving dock, or in a formulations area.



Portability and Flexibility The DDM29 is powered by a Lithium-Ion battery that is easily recharged, your DDM 29 is ready to go everywhere you need to make measurements. This

Handheld Density Meter

might be at the loading dock when receiving incoming raw goods or out on a distillery floor. The Lithium Ion battery can be charged in approximately 2 hours providing up to 4 hours of constant measurements under heavy usage or 8 hours of normal usage. Included is a Charging Station for convenient stationary charging.

Flexible Method Management

concentration tables which include Brix, Alcohol, API, and most common chemicals, as well as unlimited number of additional tables, polynomials, and formulas may be added. • Agriculture, chemicals and fertilizers Essential Oils

Factory installed measurement methods cover a wide group of industries and applications. Instrument is factory configured with over 50 density to

- Chemicals • Beer, wort, and fermentation monitoring
- Raw material soft drink monitoring • Monomers, Polymers and Elastometers
- Pharmaceutical raw materials and finished products
- Wort, juice, fermentation, spirits safe monitoring
- Blending, bottling, spirits and liquors packaging
- Sulfuric Acid in lead-acid batteries Adhesives, glues

match the measurement methods used in your laboratory or field application.

- For unique measurement applications, easily create a measurement method for your sample. You may use Concentration Tables, Formulas and Polynomials to
- Surfactants, detergents Emulsions

• Colloids, nanotechnology

- Paints, Inks, Toners
- Organic, inorganic chemicals • Fuel cells, power generation, sustainable fuels
- Soft drinks, juices, tea, coffee
- Petroleum samples according to ASTM methods

Industry Applications For Handheld Density Meters







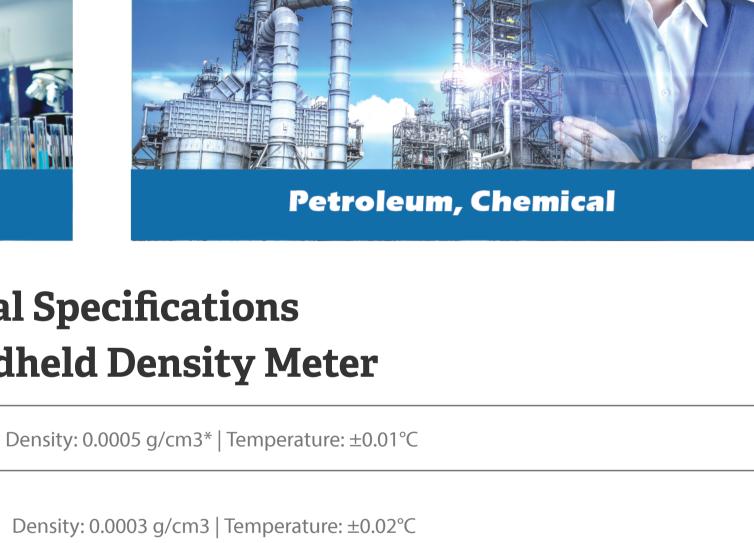
Temperature Control

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20°C or 25°C

	20°C or 25°C		
Ambient Temperature	0°C to 35°C (32°F-95°F)		
Pressure Range	0 to 10 bar (145 psi)		
Measurement Modes	Continuous, Single, Multiple		
Measurement Technique	Mechanical Oscillating Principle		
Measurement Range	Density: 0-3g / cm ³		
Minimum Sample Volume	Approx 1-2 mL, depending on injection method		
Wetted Materials	316 Stainless steel, Teflon PTFE, ECTFE, PVD, FFKM		
Supported Scales	Density, Specific Gravity, Alcohol Tables, Sugar/Extract, API functions, H2SO4 tables, acids, bases, organic and inorganic chemicals, virtually unlimited programable, and custom specific scales.		
Operating System	Flexible and capable Android OS		
Measurement Time	Typically 10 – 15 seconds after thermal equilibration		
Display	Bright LED – 7" touch screen, 1024×600 resolution		
Communication Interfaces	USB-C, WiFi, BlueTooth, Manual Entry, RFID, and Barcode Reader for entering sample IDs. Wireless Printing Via Airprint		
Remote Support	Troubleshooting, Diagnostics, Software Updates available via the Internet		
Internal Memory	Up to 3,000 Measurements		
Operating Dimensions	7.28" (L) x 4.83" (W) x 13.59" (H) 18.49 cm (L) x 12.27 cm (W) x 34.52 cm (H)		
Shipping Dimensions	24.5" (L) x 17.5" (W) x 22" (H) 62cm (L) x 44cm (W) x 56cm (H)		
Operating Weight	3.6 Lbs.		
Power Supply & Charging	Rechargeable Lithium Ion Battery		
Battery Longevity	4-8 Hours depending on usage level		
Included with Instrument	Battery Charging Station, Syringes, Calibration Certificate, Operating Instructions		
included with instrument	1 Year Warranty		

Density Meters	Distributor Locator	About Us	Rudolph Research Analytical
Refractometers	Videos	Press Releases	55 Newburgh Road Hackettstown, NJ, 07840 USA
Polarimeters	Articles	Customers/Industries	Phone: 973-584-1558
Saccharimeters	White Papers		Fax: 973-584-5440
Automation	Technical Bulletins		info@rudolphresearch.com
	Quality		
	Service & Maintenance		

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