

PORTABLE DIGITAL DENSITY METER - TORONDDM™ P100



ASTM D7777-24 Compliant | Precision Handheld Density & Concentration Analysis

ToronDDM™ P100 by Torontech™ is a high-precision portable digital density meter designed for accurate measurement of liquid density, specific gravity, and concentration in both laboratory and field environments.

Utilizing proven U-shaped oscillating tube technology with real-time temperature compensation, the ToronDDM™ P100 portable digital density meter delivers laboratory-quality results in a compact handheld instrument.

Fully compliant with ASTM D7777-24, it is ideal for professionals in petrochemical, pharmaceutical, food & beverage, and chemical industries who require accuracy, reliability, and mobility.

APPLICATIONS

Portable Digital Density Meter - ToronDDM™ P100 Applications

- Petroleum & Fuels: Diesel, gasoline, lubricants
- Food & Beverage: Alcohol, juice, syrups, sweeteners
- Pharmaceutical & Chemical: Reagents, solvents, formulations
- Electronics: Electrolytes, coolants, process fluids
- Quality Control / Field Testing: Laboratory or mobile verification of density and concentration

Portable Digital Density Meter - ToronDDM-P100

FEATURES

Portable Digital Density Meter - ToronDDM™ P100 Key Features

- ASTM D7777-24 Compliant – Meets international standards for digital density measurement
- Portable Lightweight Design – Just 260 g for one-handed operation in field or lab
- U-Tube Oscillation Technology – High measurement stability and precision
- Integrated Temperature Compensation – Ensures data reliability across varying conditions
- Sealed, Leak-Proof Housing – Protects internal components from sample intrusion
- Method Library & Custom Programming – 20 preset methods + 5 user-defined profiles
- Data Logging & USB/IR Export – Stores up to 1000 entries with timestamps and IDs
- Quick Pump Replacement – Plug-and-play sampling pump module for minimal downtime

THEORY & METHOD

Advantages of Portable Digital Density Meter ToronDDM-P100

- Cost-Effective Without Sacrificing Accuracy – Offers premium measurement performance at an accessible price
- Reliable substitute for bulky benchtop instruments
- Ideal for both field inspections and laboratory verification
- Reduces operator error with guided digital measurement
- Built for rugged environments with chemical-resistant construction

Compliance

- ASTM D7777-24 – Standard method for digital liquid density and relative density
- Compatible with ISO, GLP, and regulatory laboratory standards

Torontech is a trusted global provider of analytical and industrial instrumentation. The Portable Digital Density Meter ToronDDM-P100 extends this commitment by combining precision, portability, and value, delivering professional-grade results for modern laboratories and field operations.

TECHNICAL SPECIFICATIONS

Portable Digital Density Meter - ToronDDM™ P100 Technical Specification

Parameter	Specification
Principle	U-shaped oscillating glass tube
Density Range	0 - 3.0000 g/cm³
Accuracy	±0.001 g/cm³
Repeatability	±0.0005 g/cm³
Temperature Range	0 - 40 °C (32 - 104 °F)
Temperature Accuracy	±0.2 °C
Sample Volume	~2 mL
Display	4-digit LED, 55 × 45 mm
Data Storage	1000 records (with timestamp & ID)
Export Options	Infrared (IrDA) / USB
Voltage	2 × AAA batteries (3 V)
Dimensions	160 × 140 × 28 mm
Weight	~260 g



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