

FULLY AUTOMATIC DIGITAL DENSITY METER - TORONDDM™ 70



ASTM D4052, GB/T 2013, SNT 2383

ToronDDM™-70 is a fully automatic digital density meter developed for laboratories that require high accuracy, minimal manual intervention, and full compliance with 21 CFR Part 11. Built on the oscillating U-tube principle, it delivers superior performance in density, concentration, and specific gravity measurements.

Featuring built-in Peltier temperature control, high-resolution video monitoring, and support for an optional external heating module, the DDM-70 is ideal for high-throughput testing in FDA-regulated environments.

21 CFR Part 11 Compliant

Includes electronic signature, audit trail, 4-level user access control, and MD5-verified data export.

APPLICATIONS

Applications:

Digital Density Meters – ToronDDM-Series

- **FDA-Regulated Pharmaceutical Laboratories** - Provides high-precision density and concentration measurements of active ingredients, intermediates, and formulations with full 21 CFR Part 11 compliance for audit-ready data integrity.
- **Chemical Testing & Petrochemical Industry** - Ensures accurate determination of density and specific gravity for solvents, polymers, and specialty chemicals, supporting R&D, batch quality control, and compliance with ASTM and ISO standards.

- **Alcohol & Beverage Quality Control** - Delivers rapid and reliable ethanol concentration, proof, and sugar content measurements for spirits, wine, beer, and other beverages, ensuring consistency and regulatory compliance.
- **Regulated Industrial Laboratories** - Automates density measurement workflows for petroleum, lubricants, and industrial fluids where traceability, reproducibility, and compliance with ASTM D4052 and similar standards are critical.
- **Food & Cosmetics Manufacturing** - Monitors density of oils, emulsions, creams, and liquid products to verify stability, consistency, and production quality.
- **Academic & Research Institutions** - Supports advanced material science, molecular research, and physical property characterization with high-resolution and repeatable results.
- **Independent Testing & Certification Agencies** - Provides validated, MD5-protected digital density reports for third-party verification and regulatory compliance across multiple industries.

FEATURES

Key Features:

Specification	Details
Measurement Range	0-3.0 g/cm³
Resolution	±0.00001 g/cm³

Specification	Details
Repeatability	±0.00003 g/cm³
Accuracy	±0.00005 g/cm³
Peltier Temperature Control	0°C-75°C, ±0.01°C
Sample Injection	Fully automatic (manual-compatible)
Additional Features	External heater module support
Display	10.4" color touchscreen
Storage	64 GB internal
Video Monitoring	Built-in for bubble detection
Security	User permission management (4 levels)
Compliance	Audit trail & electronic signature (21 CFR Part 11)
Data Protection	MD5 file protection
Printing	WiFi & serial port
Export Formats	PDF & Excel
Voltage	110V-230V, 50/60Hz
Size	480 × 320 × 200 mm
Weight	8 kg



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