

AUTOMATIC DIGITAL DENSITY METER- TORONDDM™ 50



Automatic Digital Density Meter- ToronDDM™ 50 | ASTM D4052

ToronDDM™ 50 is a high-accuracy automatic digital density meter designed to streamline routine liquid density measurement across pharmaceuticals, chemicals, food and beverage, and academic laboratories. Built on the oscillating U-tube principle, it combines proven analytical reliability with powerful automation at a competitive price.

Equipped with AI-driven parameter setting, Peltier temperature control, and HD video functionality to eliminate bubble interference, the DDM-50 provides stable and reproducible results with minimal operator input.

Fully 21 CFR Part 11 Compliant

Includes audit trail, electronic signature, and permission-based access control, ideal for FDA-regulated environments.

APPLICATIONS

Applications:

1. Pharmaceuticals: Active ingredient & excipient density QC
2. Petrochemicals: API index and additive blending
3. Food & Beverage: Sugar content, alcohol concentration, juice and syrup density
4. Chemicals: Detergents, acids, alkalis, ammonia water
5. Academic Labs: Teaching, training, and student research
6. 3rd Party Testing: Standard labs and contract testing centers

FEATURES

Key Features:

Specification	Details
Measurement Range	0-3.0 g/cm³
Resolution	0.0001 g/cm³
Repeatability	±0.0002 g/cm³
Accuracy	±0.0003 g/cm³
Temperature Control	Peltier system (0°C-55°C; ±0.01°C stability)
Sample Injection	Fully automatic (manual-compatible)
Display	10.4" FTF color touchscreen
Data Storage	32 GB internal memory
Output Interfaces	USB, RS232, RJ45, SD card, U disk
Export Formats	PDF, Excel
Video Monitoring	HD camera to detect air bubbles
Printing Support	Direct print through built-in printer
Compliance	21 CFR Part 11 (audit trail, electronic signature, user permissions)
Voltage	110V-230V, 50/60Hz
Dimensions	480 mm × 320 mm × 200 mm

Specification	Details
Weight	8 kg



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