

One Click™ Density Measurement Accurate, Intuitive, and Modular



Accurate and reliable results

Excellence Density Meters guarantee high reliability and maximum precision, with an accuracy of up to 6 digits. Measure density, specific gravity, as well as many related values such as % alcohol and Brix quickly and accurately.



One Click operation

The large touch screen terminal with our intuitive One Click user interface minimizes training and operator influence. Simply press on the product shortcut to run your analysis. The instrument status light will show if it is ready, busy, or waiting for operator interaction.



Smart error detection

Ensure flawless density measurements with the integrated video view and BubbleCheck™. Automatic viscosity correction combined with integrated temperature control ensures fast and trustworthy results for all samples.



Seamless modularity

Density and refractive index are frequently determined for the same sample. Our space-saving system enables you to combine a density meter with a refractive index cell to measure both parameters in one go.



Performance Meets Simplicity

Developed for a wide range of applications, our intuitive Excellence Density Meters will measure almost any sample. The instruments feature a high accuracy and repeatability and can be further enhanced with the following solutions:

- Powerful autosamplers for all sample types, including high-viscous
- Simultaneous determination of density, refractive index, pH/conductivity and color
- LabX PC software for compliance with 21 CFR Part 11
- Wide range of accessories

Density and More

Save time and increase data quality: Excellence Density Meters can be upgraded to a dedicated automatic multiparameter system combining density, refractive index, pH, color, titration, and more to prevent the alteration of samples between individual analyses. Increase throughput and automate your workflow while ensuring that all steps are performed the same way each time.



Technical and Functionalities Specifications

Excellence Density Meters		D4	D5	D6
Density (g/cm ³)	Measuring range	0.000–3.000		
	Accuracy*	±0.0001	±0.00005	±0.000005
	Repeatability	±0.00005	±0.000005	±0.000001
	Resolution	0.0001	0.00001	0.000001
Temperature (°C)	Temperature range	0–95 (32–203 °F)		
	Accuracy	±0.03	±0.02	±0.01
Measurement scales	Integrated concentration tables and functions	Specific gravity, Twaddell, light and heavy Baumè, acid/base scales, chemicals, salt and others scales Alcohol: OIML, AOAC, Proof Degree, HM C&E, Gay Lussac Sugar: Plato, Brix (Emmerich, NBS 113), HFCS 42/55, Invert Sugar, KMW, Oechsle, Babo Petro: API degrees and gravity tables for crude oils, refined products and lubricants Up to 30 user-defined concentration tables (can be entered as tables or formulas)		
Internal results storage		Maximum number of results: 200		
Integrated pressure sensor		Yes		
Viscosity correction		Yes		
Automatic sample detection		Yes		
Automatic bubble detection (BubbleCheck™)		Yes		
Video view		Yes		
Color-coded results identification		Yes		
User management		Yes		
Password protection		Yes		
Languages		English, Chinese, German, Spanish, French, Italian, Portuguese, Russian, Polish		
Display/User interface		7" display with color touchscreen		
Connectivity		3 × USB host (printer, memory stick, barcode reader, hub, keyboard, mouse); USB client (PC Software); Ethernet (Network and PC Software); RS232 (Automation units); CAN (Multiple LevelSens); HDMI (Terminal)		
PC software		LabX® PC Software		
Dimensions (W × H × D) mm		267 × 226 × 256		
Weight		17.5 kg		
Standard compliance		▶ www.mt.com/dere-norms		

* Instrument under ideal conditions and for samples with low densities and viscosities

Instruments and Accessories

Material Description	Material Number	Material Description	Material Number
Density Meter Excellence D4	30474900	Sampling pump – SPR200	30094285
Density Meter Excellence D5	30474901	SV3 SPR200 Bundle	30474907
Density Meter Excellence D6	30474902	Handheld barcode scanner	21901297
LabX PC software – Express	11153130	USB-P25 printer	11124301
LabX PC software – Server	11153131	P-56RUE printer	30094673
LabX PC software – Instrument license	11153250	P-58RUE printer	30094674
Infrared motion sensor – ErgoSens™	11132601	Certified standard – Water	51338010
Waste sensor – LevelSens™	51109853	Certified standard – Dodecane	51338012
Finger print reader – LogStraight™	51192107	Certified standard – Dichlorotoluene	51338013
Drying pump – DryPro	30474899	Certified standard – Bromonaphthalene	51338014

METTLER TOLEDO Group

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