

# METTLER TOLEDO

## Benchtop Density Meters



### Excellence Line

### EasyPlus Line

Density Meters	Excellence D4	Excellence D5	Excellence D6	Easy D30	Easy D40
<b>Catalog Number</b>	30474900	30474901	30474902	30468670	30468671
<b>Density</b>					
<b>Measuring Range (g/cm<sup>3</sup>)</b>	0 - 3	0 - 3	0 - 3	0 - 3	0 - 3
<b>Accuracy (g/cm<sup>3</sup>)</b>	±0.0001	±0.00005	±0.000005	±0.001	±0.0005
<b>Repeatability (g/cm<sup>3</sup>)</b>	±0.00005	±0.000005	±0.000001	±0.0001	±0.00005
<b>Resolution (g/cm<sup>3</sup>)</b>	0.0001	0.00001	0.000001	0.001	0.0001
<b>Temperature</b>					
<b>Temperature Range of Sample (°C)</b>	0 - 95	0 - 95	0 - 95	15 - 25	15 - 50
<b>Accuracy (°C)</b>	±0.03	±0.02	±0.01	±0.2	±0.1
<b>Temperature Control</b>	✓	✓	✓	✓	✓
<b>Measurement Scales</b>					
<b>Integrated Concentration Tables and Functions</b>	Specific gravity, acid/base scales, chemicals, salt, freezing point scales, Twaddell, light and heavy Baumé 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)			Density and Specific Gravity	Density, Specific Gravity, Ethanol, Sugar tables, API functions, Acid tables, Urea, User-defined concentration
<b>User Interface</b>					
<b>Minimal Sample Volume (mL)</b>	Syringe w/o holder: 1.5 Syringe w/ holder: 2.5 Automated: 4	Syringe w/o holder: 1.5 Syringe w/ holder: 2.5 Automated: 4	Syringe w/o holder: N/A Syringe w/ holder: 2.5 Automated: 4	Approx. 1.2	Approx. 1.2
<b>Internal Results Storage</b>	200	200	200	20	20
<b>Number of Methods</b>	120	120	120	1	6
<b>Connectivity</b>					
<b>Multiparameter Compatibility</b>	Refractive Index Cell; pH SevenCompact; Conductivity SevenCompact; Color Konica Minolta CM5/CR5' Color Lovibond PFX-8xx/PFX-9xx; Color Lovibond PFXi-195			None	None
<b>Automation Options</b>	Drying pump – DryPro; Sampling pump – SPR200; SV3 3-way valve; SV3 SPR200 Bundle; InMotion Autosampler Flex; SC1 – Single Sample Automation; SC30 – Multiple Samples Automation; SC1H – Heated Single Sample Automation; SC30H – Heated Multiple Samples Automation			None	None
<b>PC Software</b>	LabX	LabX	LabX	EasyDirect Density and Refractometry PC Software	EasyDirect Density and Refractometry PC Software
<b>Data Export</b>	USB, Network	USB, Network	USB, Network	None	USB
<b>Printers</b>	USB, Compact, Network	USB, Compact, Network	USB, Compact, Network	USB	USB
<b>Services</b>					
<b>EQPac + SCC Calibration*</b>	✓	✓	✓	✗	✗
<b>IPac (Calibration Optional)</b>	✓	✓	✓	✗	✗
<b>StarterPac (Calibration Optional)</b>	✗	✗	✗	✓	✓
<b>Extended Care (Calibration Optional)</b>	✓	✓	✓	✓	✓
<b>On-Site Service</b>	✓	✓	✓	✓	✓

\*If a customer requires an EQPac, one of the three accessories is also required: DryPro Pump, SC1 (or SC1H), or SC30 (or SC30H)

# METTLER TOLEDO

## Benchtop Refractometers



### Excellence Line

### EasyPlus Line

Refractometers	Excellence R4	Excellence R5	Easy Brix	Easy R40	Easy Bev
Catalog Number	30474903	30474904	30468673	30468672	30468674

### Refractive Index

Measuring Range (nD)	1.32 - 1.70	1.32 - 1.58	1.32 - 1.58	1.30 - 1.72	1.32 - 1.58
Accuracy (nD)	±0.0001	±0.00002 around adjustment point ±0.00004 entire range	±0.0001	±0.0001	±0.0001
Repeatability (nD)	±0.00005	±0.00001	±0.00005	±0.00005	±0.00005
Resolution (nD)	0.0001	0.00001	0.0001	0.0001	0.0001

### Brix

Measuring Range (% w/w)	0 - 100	0 - 100	0 - 100	0 - 100	0 - 100
Accuracy (% w/w)	±0.05	±0.014	±0.05	±0.05	±0.05
Repeatability (% w/w)	±0.05	±0.01	±0.05	±0.05	±0.05

### Temperature

Temperature Range of Sample (°C)	5 - 100	5 - 75	15 - 25	10 - 65	15 - 25
Accuracy (°C)	±0.1	±0.03 (from 15°C to 50°C) ±0.05 (from 5°C to 75°C)	±0.1	±0.1	±0.1
Temperature Control	✓	✓	✓	✓	✓

### Measurement Scales

Integrated Concentration Tables and Functions	nD, Zeiss (14.45), Zeiss (15.00), acid/base scales, salt, chemicals, freezing point scales Sugar: Brix, HFCS 42/55, Invert Sugar, Oechsle Up to 30 user-defined concentration tables (can be entered as tables or formulas)	Refractive Index, Brix, Brix compensated 20°C, Inverted sugar, HFCS 42/55, Oechsle	Refractive index, Brix, Inverted sugar, HFCS 42/55, Oechsle, Chemical and Freezing point tables, User-defined concentration	Refractive Index, Brix, Brix compensated 20°C, Inverted sugar, HFCS 42/55, Oechsle
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### User Interface

Minimal Sample Volume (mL)	Approx. 1	Approx. 1	Approx. 0.2	Approx. 0.2	Approx. 6
Internal Results Storage	200	200	20	20	20
Number of Methods	120	120	1	6	6

### Connectivity

Automation Options	Sampling pump – SPR200; SV3 3-way valve; SV3 SPR200 Bundle; InMotion Autosampler Flex; SC1 – Single Sample Automation; SC30 – Multiple Samples Automation		None	None	None
PC Software	LabX	LabX	EasyDirect Density and Refractometry PC Software	EasyDirect Density and Refractometry PC Software	EasyDirect Density and Refractometry PC Software
Data Export	USB, Network	USB, Network	USB	USB	USB
Printers	USB, Compact, Network	USB, Compact, Network	USB	USB	USB

### Services

EQPac + SCC Calibration*	✓	✓	✓	✗	✗
IPac (Calibration Optional)	✓	✓	✓	✗	✗
StarterPac (Calibration Optional)	✗	✗	✗	✓	✓
Extended Care (Calibration Optional)	✓	✓	✓	✓	✓
On-Site Service	✓	✓	✓	✓	✓

\*If a customer requires an EQPac, one of the three accessories is also required: DryPro Pump, SC1 (or SC1H), or SC30 (or SC30H)