

Essential for Daily Routines

Simple, Rugged, and Trustworthy



Intuitive operation

Instrument set up is simplified, allowing first measurements within minutes: the intuitive app-based user interface minimizes user training and the integrated user guidance prevents operator errors.



Suitable for the lab or production area

With the rugged design, the splash-resistant touch screen, stainless steel top and sapphire prism, the instrument is ready to be used in a lab or on the factory floor.



Measurements within seconds

With FastStart™ technology, measurements can be started immediately after dropping a sample, without pressing any buttons. Routine measurements are simplified and acceptable samples are instantly identified by the setup of a range of tolerable limits.



Reliable results

The range of SimpleCheck™ standards – from H₂O, chemicals to sucrose solutions for Brix verification – ensures reliable results for all instruments. The SimpleCheck™ embedded workflow guides operators through the instruments' performance verification.



EasyPlus Refractometers

EasyPlus Refractometers offer everything needed for daily routine applications in a strikingly small footprint: fast measurements, small sample volumes, minimal operator dependency and more:

- Wide refractive index range
- Fast and reliable temperature control (can be turned off for instant results)
- LongClick™ – press and hold the home screen to start routine analyses in 1 second
- EasyDirect™ PC software for efficient data management

Technical and Functionalities Specifications

EasyPlus Refractometers		Easy Brix	Easy R40
Refractive Index (nD)	Measuring range	1.32–1.58	1.30–1.72
	Accuracy	±0.0001	±0.0001
	Repeatability	±0.00005	±0.00005
	Resolution	0.0001	0.0001
Brix (% w /w)	Measuring range	0–100	0–100
	Accuracy	0.05 ¹⁾	0.05 ¹⁾
	Repeatability	0.05	0.05
	Resolution	0.01	0.01
Temperature (°C)	Sample temperature range	15–25 (59–77 °F)	10–65 (50–149 °F)
	Resolution	0.01	0.01
	Temperature control	Yes ²⁾	Yes ²⁾
Measurement scales	Integrated concentration tables and functions	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
Number of methods		1	6
Result export		No	To USB stick (.csv)
User management		No	Yes (Three user groups: admin, expert, operator) Up to ten users. Password protection
Internal results storage		20 ³⁾	
Color-coded results identification		Yes	
Automatic sample detection (FastStart™)		Yes	
SimpleCheck™ standards		Yes	
Barcode reader connectivity		Yes	
On-screen help text		Yes	
Languages		English, Chinese, German, Spanish, French, Italian, Portuguese, Russian, Bahasa Indonesia, Korean, Polish, Thai, Turkish	
Display		4.3" Capacitive touch screen	
Connectivity		3 x USB-A (keyboard, mouse, barcode reader, printer) 1 x USB-B (EasyDirect PC Software)	
Parts in contact with sample		Sapphire, stainless steel, PTFE	
Minimal sample volume		Approx. 0.2 mL	
Instrument dimensions (W x H x D) (mm)		170 x 156 x 273 (6.7 x 6.1 x 10.7 inches)	
PC Software		EasyDirect Density and Refractometry PC Software (installation on a single PC, connect up to 3 density meters and/or refractometers)	
Service		Professional Installation (StarterPac) Professional calibration	
Standard compliance		▶ www.mt.com/dere-norms	

¹⁾ Accuracy of 0.07 at approx. 10% w/w to 0.04 at approx. 80% w/w

²⁾ Temperature control can be turned off for instant results

³⁾ Unlimited results storage when transferred directly to a USB stick or to EasyDirect PC software

Instruments and Accessories

Material Description	Material Number
EasyPlus Refractometer – Easy Brix	30468673
EasyPlus Refractometer – Easy R40	30468672
EasyDirect Density and Refractometry PC Software	30451628
USB transfer cable EasyDirect PC Software	51191926
Printer USB-P25	11124301
Barcode reader	21901297
USB cable for barcode reader	21901309
USB keyboard	51192111

Material Description	Material Number
SimpleCheck™ nD Water 1.333 at 20 °C	30467245
SimpleCheck™ nD Bromonaphthalene 1.657 at 20 °C	30467248
SimpleCheck™ nD Dichlorotoluene 1.546 at 20 °C	30467247
SimpleCheck™ nD Dodecane 1.421 at 20 °C	30467246
SimpleCheck™ Brix Sucrose/water 10% at 20 °C	30467238
SimpleCheck™ Brix Sucrose/water 12% at 20 °C	30467239
SimpleCheck™ Brix Sucrose/water 20% at 20 °C	30467241

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For more information