

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 × USB-A (keyboard, mouse, barcode reader, printer) 1 × USB-B (EasyDirect PC Software) | |
| Parts in contact with sample | | Sapphire, stainless steel, PTFE | |
| Minimal sample volume | | Approx. 0.2 mL | |
| Instrument dimensions (W × H × D) (mm) | | 170 × 156 × 273 (6.7 × 6.1 × 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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www.mt.com/EasyPlus-Refractometry

For more information

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