



## ***Built for Precision, Powered by Innovation***

The new Explorer (EXR series) offers an intuitive interface, outstanding weighing performance, and an environmentally friendly design. The new generation Explorer establishes a groundbreaking standard for laboratory operations.

### ***Unique Features:***

- **High Performance Weighing**

Achieve consistent results with built-in automatic calibration, touchless sensors and a ventilated weighing pan. Get reliable data with the digital high-speed load cell.

- **Refined User Experience**

An intuitive 7-inch glass touchscreen, digital leveling, and simplified data management is easy to use. With an effortless installation and chemical-protective design it ensures efficiency and comfort.

- **Effective Communication Options**

Supports HID connection to PC or keyboard without drivers, and provides 2-way communication with RS232, USB, Ethernet, Bluetooth, and WiFi for seamless data transfer.

# EXPLORER™ Analytical Balances

## Specifications



| Model   | EXR124  | EXR224                | EXR324                 |
|---|---|-----------------------|------------------------|
|   | EXR124N*  | EXR224N*              | EXR324N*               |
| Capacity  | 120 g   | 220 g                 | 320 g                  |
| Readability d                                       | 0.1 mg  | 0.1 mg                | 0.1 mg                 |
| Repeatability (sd.), ≤5% of Full Load Typical       | 0.05 mg   | 0.05 mg               | 0.05 mg                |
| Repeatability (sd.), 5% of Full Load to Full Range  | 0.1 mg  | 0.1 mg                | 0.1 mg                 |
| Readability d (g) (EXR...N...model)                 | 0.1 mg or 1 mg  |                       |                        |
| Linearity Deviation Typical                         | 0.06 mg   | 0.06 mg               | 0.06 mg                |
| Linearity Deviation                                 | 0.2 mg  | 0.2 mg                | 0.2 mg                 |
| Verification Interval, e (EXP...N.. models only)    | 1 mg  | 1 mg                  | 1 mg                   |
| Approval Class (EXP...N.. models only)              | Class I   | Class I               | Class I                |
| Span Calibration Points                             | 25g, 50g, 75g, 100g   | 50g, 100g, 150g, 200g | 100g, 150g, 200g, 300g |
| Weighing Units                                      | g, mg, ct, N, oz, ozt, Grain, dwt, mo, msg, tl H, tl S, tl T, tcl, tola, baht, Custom 1, Custom 2   |                       |                        |
| Weighing Units (EXR...N.. model only)               | g, mg, ct, oz, ozt, Grain, dwt  |                       |                        |
| Applications  | Basic Weighing, Parts Counting, Check Counting, Percent Weighing, Check Weighing, Dynamic Weighing, Totalization, Formulation, Differential, Density Determination, Peak Hold |                       |                        |
| Stabilization Time (typical)                        | 2 seconds   |                       |                        |
| Sensitivity Temperature Drift (ppm/°C)              | 1.5   |                       |                        |
| Min-Weight (typical) (K=2, U=1%)                    | 10 mg   |                       |                        |
| Min-Weight (typical) (USP, K=2, U=0.10%)            | 100 mg  |                       |                        |
| Min-Weight (optimal) (USP, K=2, U=0.10%, SRP≤0.41d) | 82 mg   |                       |                        |
| Terminal Display                                    | 7-inch TFT 16.7M Color Touch Screen with Glass Overlay  |                       |                        |
| Display Resolution                                  | 800 x 480 Pixels  |                       |                        |
| Communication                                       | USB Host (Type A) x 2, USB Device (Type C) x 1 Ethernet (RJ45) x 1, RS232 x 1; Optional Wi-Fi, Bluetooth Dongle   |                       |                        |
| Leveling System                                     | 2 Leveling Feet with Digital Leveling Bubble  |                       |                        |
| Power Supply  | AC Adapter Input: 100-240 VAC 0.5A 50-60 Hz<br>AC Adapter Output: 12 VDC 1.5A   |                       |                        |
| Weighing Pan Size                                   | Square Pan 90mm x 90mm  |                       |                        |
| Touchless Sensor                                    | 2 Touchless Sensors on the terminal   |                       |                        |
| Draftshield with anti-static coating                | Standard  |                       |                        |
| Terminal Status Lights                              | Standard, 7-color Selectable  |                       |                        |
| Assembled Dimensions (W x D x H)                    | 230mm x 393mm x 370mm   |                       |                        |
| Shipping Dimensions (W x D x H)                     | 415mm x 630mm x 561mm   |                       |                        |
| Net Weight  | 7.4 kg  |                       |                        |
| Shipping Weight                                     | 10.2 kg   |                       |                        |

\*NTEP Legal for Trade models coming soon!

# EXPLORER™ Precision Balances

## Specifications



| Model   | EXR223  | EXR423                 | EXR623                 | EXR1203                 |
|---|---|------------------------|------------------------|-------------------------|
|   | EXR223N*  | EXR423N*               | EXR623N*               | EXR1203N*               |
| Capacity  | 220 g   | 420 g                  | 620 g                  | 1200 g                  |
| Readability d                                       | 1mg   | 1mg                    | 1mg                    | 1mg                     |
| Repeatability (sd.), ≤5% of Full Load Typical       | 0.7 mg  | 0.7 mg                 | 0.7 mg                 | 0.7 mg                  |
| Repeatability (sd.), 5% of Full Load to Full Range  | 1 mg  | 1 mg                   | 1 mg                   | 1 mg                    |
| Readability d (g) (EXR...N...model)                 | 1 mg or 10 mg   |                        |                        |                         |
| Linearity Deviation Typical                         | 0.6 mg  | 0.6 mg                 | 0.6 mg                 | 0.6 mg                  |
| Linearity Deviation                                 | 2 mg  | 2 mg                   | 2 mg                   | 2 mg                    |
| Verification Interval, e (EXP...N.. models only)    | 10mg  | 10mg                   | 10mg                   | 10mg                    |
| Approval Class (EXP...N.. models only)              | Class II  | Class II               | Class II               | Class I                 |
| Span Calibration Points                             | 50g, 100g, 150g, 200g   | 100g, 200g, 300g, 400g | 300g, 400g, 500g, 600g | 400g, 600g, 800g, 1000g |
| Weighing Units                                      | g, mg, ct, N, oz, ozt, Grain, dwt, mo, msg, tl H, tl S, tl T, tcl, tola, baht, Custom 1, Custom 2, lb (models with capacity ≥ 620 g), kg (models with capacity ≥ 1200 g)      |                        |                        |                         |
| Weighing Units (EXR...N.. model only)               | g, mg, ct, oz, ozt, Grain, dwt, lb (models with capacity ≥ 620 g), kg (models with capacity ≥ 1200 g)   |                        |                        |                         |
| Applications  | Basic Weighing, Parts Counting, Check Counting, Percent Weighing, Check Weighing, Dynamic Weighing, Totalization, Formulation, Differential, Density Determination, Peak Hold |                        |                        |                         |
| Stabilization Time (typical)                        | ≤ 1.5 seconds   |                        |                        |                         |
| Sensitivity Temperature Drift (ppm/°C)              | 3   |                        |                        |                         |
| Min-Weight (typical) (K=2, U=1%)                    | 0.14 g  |                        |                        |                         |
| Min-Weight (typical) (USP, K=2, U=0.10%)            | 1.4 g   |                        |                        |                         |
| Min-Weight (optimal) (USP, K=2, U=0.10%, SRP≤0.41d) | 0.82 g  |                        |                        |                         |
| Terminal Display                                    | 7-inch TFT 16.7M Color<br>Touch Screen with Glass Overlay   |                        |                        |                         |
| Display Resolution                                  | 800 x 480 Pixels  |                        |                        |                         |
| Communication                                       | USB Host (Type A) x 2, USB Device (Type C) x 1<br>Ethernet (RJ45) x 1, RS232 x 1; Optional Wi-Fi, Bluetooth Dongle  |                        |                        |                         |
| Leveling System                                     | 2 Leveling Feet with Digital Leveling Bubble  |                        |                        |                         |
| Power Supply  | AC Adapter Input: 100-240 VAC 0.5A 50-60 Hz<br>AC Adapter Output: 12 VDC 1.5A   |                        |                        |                         |
| Weighing Pan Size                                   | Square Pan 130mm x 130mm  |                        |                        |                         |
| Touchless Sensor                                    | 2 Touchless Sensors on the terminal   |                        |                        |                         |
| Draftshield with anti-static coating                | Standard  |                        |                        |                         |
| Terminal Status Lights                              | Standard, 7-color Selectable  |                        |                        |                         |
| Assembled Dimensions (W x D x H)                    | 230mm x 393mm x 370mm   |                        |                        |                         |
| Shipping Dimensions (W x D x H)                     | 415mm x 630mm x 561mm   |                        |                        |                         |
| Net Weight  | 7.4 kg  |                        |                        |                         |
| Shipping Weight                                     | 10.2 kg   |                        |                        |                         |

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# EXPLORER™ Precision Balances

## Specifications



| Model   | EXR2202   | EXR4202                    | EXR6202                    | EXR8202                    | EXR12202                     |
|---|---|----------------------------|----------------------------|----------------------------|------------------------------|
|   | EXR2202N*   | EXR4202N*                  | EXR6202N*                  | EXR8202N*                  | EXR12202N*                   |
| Capacity  | 2200 g  | 4200 g                     | 6200 g                     | 8200 g                     | 12200 g                      |
| Readability d                                       | 0.01 g  | 0.01 g                     | 0.01 g                     | 0.01 g                     | 0.01 g                       |
| Repeatability (sd.), ≤5% of Full Load Typical       | 0.007 g   | 0.007 g                    | 0.007 g                    | 0.007 g                    | 0.007 g                      |
| Repeatability (sd.), 5% of Full Load to Full Range  | 0.01 g  | 0.01 g                     | 0.01 g                     | 0.01 g                     | 0.01 g                       |
| Readability d (g) (EXR...N...model)                 | 0.01 g or 0.1 g   |                            |                            |                            |                              |
| Linearity Deviation Typical                         | 0.006 g   | 0.006 g                    | 0.006 g                    | 0.006 g                    | 0.006 g                      |
| Linearity Deviation                                 | 0.02 g  | 0.02 g                     | 0.02 g                     | 0.02 g                     | 0.02 g                       |
| Verification Interval, e (EXP...N.. models only)    | 0.1 g   | 0.1 g                      | 0.1 g                      | 0.1 g                      | 0.1 g                        |
| Approval Class (EXP...N.. models only)              | Class II  | Class II                   | Class II                   | Class II                   | Class I                      |
| Span Calibration Points                             | 500g,1000g,1500g, 2000g   | 1000g, 2000g, 3000g, 4000g | 2000g, 3000g, 4000g, 6000g | 2000g, 4000g, 6000g, 8000g | 6000g, 8000g, 10000g, 12000g |
| Weighing Units                                      | g, ct, N, oz, ozt, Grain, dwt, mo, msg, tl H, tl S, tl T, tcl, tola, baht, lb, kg<br>Custom 1, Custom 2   |                            |                            |                            |                              |
| Weighing Units (EXR...N.. model only)               | g, ct, oz, ozt, Grain, dwt, lb, kg  |                            |                            |                            |                              |
| Applications  | Basic Weighing, Parts Counting, Check Counting, Percent Weighing, Check Weighing, Dynamic Weighing, Totalization, Formulation, Differential, Density Determination, Peak Hold |                            |                            |                            |                              |
| Stabilization Time (typical)                        | ≤ 1 second  |                            |                            |                            |                              |
| Sensitivity Temperature Drift (ppm/°C)              | 3   |                            |                            |                            |                              |
| Min-Weight (typical) (K=2, U=1%)                    | 1.4 g   |                            |                            |                            |                              |
| Min-Weight (typical) (USP, K=2, U=0.10%)            | 14 g  |                            |                            |                            |                              |
| Min-Weight (optimal) (USP, K=2, U=0.10%, SRP≤0.41d) | 8.2 g   |                            |                            |                            |                              |
| Terminal Display                                    | 7-inch TFT 16.7M Color<br>Touch Screen with Glass Overlay   |                            |                            |                            |                              |
| Display Resolution                                  | 800 x 480 Pixels  |                            |                            |                            |                              |
| Communication                                       | USB Host (Type A) x 2, USB Device (Type C) x 1<br>Ethernet (RJ45) x 1, RS232 x 1; Optional Wi-Fi, Bluetooth Dongle  |                            |                            |                            |                              |
| Leveling System                                     | 2 Leveling Feet with Digital Leveling Bubble  |                            |                            |                            |                              |
| Power Supply  | AC Adapter Input: 100-240 VAC 0.5A 50-60 Hz<br>AC Adapter Output: 12 VDC 1.5A   |                            |                            |                            |                              |
| Weighing Pan Size                                   | Trapezoid Pan 178mm x 201mm   |                            |                            |                            |                              |
| Touchless Sensor                                    | 2 Touchless Sensors on the terminal   |                            |                            |                            |                              |
| Terminal Status Lights                              | Standard, 7-color Selectable  |                            |                            |                            |                              |
| Assembled Dimensions (W x D x H)                    | 229mm x 391mm x 95mm  |                            |                            |                            |                              |
| Shipping Dimensions (W x D x H)                     | 385mm x 590mm x 311mm   |                            |                            |                            |                              |
| Net Weight  | 4.9 kg  |                            |                            |                            |                              |
| Shipping Weight                                     | 7.1 kg  |                            |                            |                            |                              |

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# EXPLORER™ Precision Balances

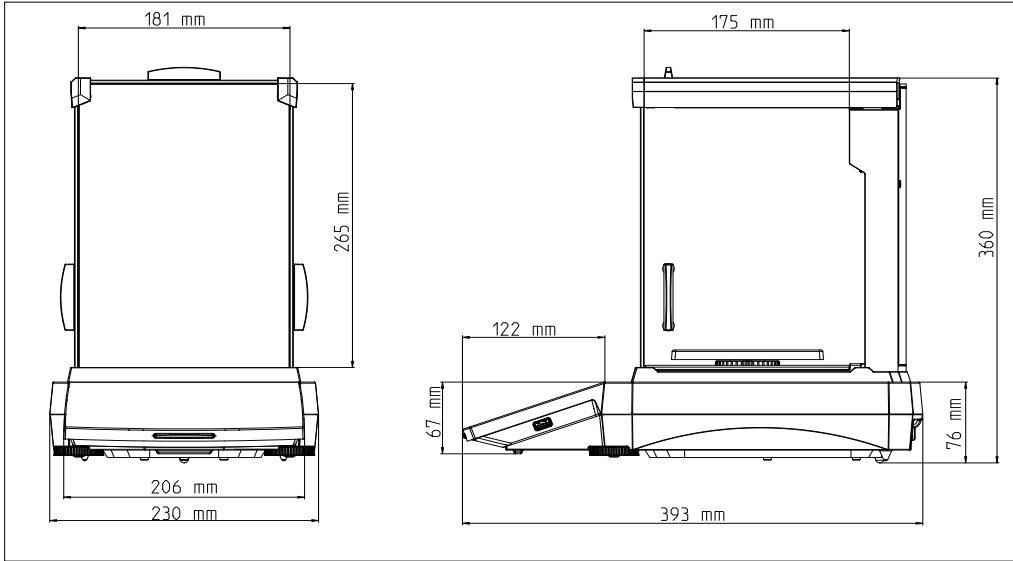
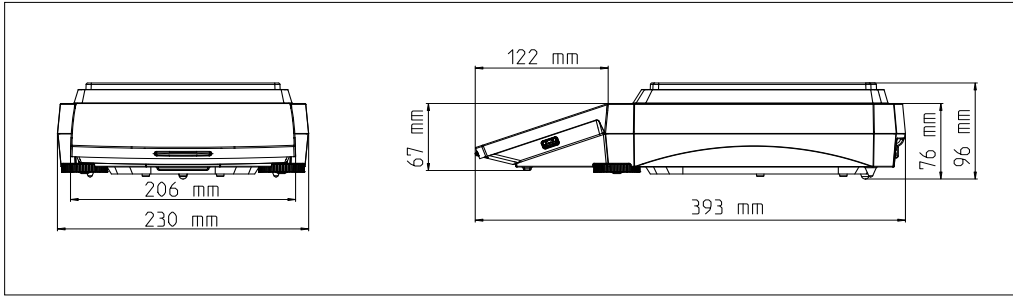
## Specifications



| Model   | EXR6201   | EXR8201                    | EXR10201                    |
|---|---|----------------------------|-----------------------------|
| Capacity  | 6200 g  | 8200 g                     | 10200 g                     |
| Readability d                                       | 0.1 g   | 0.1 g                      | 0.1 g                       |
| Repeatability (sd.), ≤5% of Full Load Typical       | 0.07 g  | 0.07 g                     | 0.07 g                      |
| Repeatability (sd.), 5% of Full Load to Full Range  | 0.1 g   | 0.1 g                      | 0.1 g                       |
| Linearity Deviation Typical                         | 0.06 g  | 0.06 g                     | 0.06 g                      |
| Linearity Deviation                                 | 0.2 g   | 0.2 g                      | 0.2 g                       |
| Span Calibration Points (g)                         | 2000g, 3000g, 4000g, 6000g  | 2000g, 4000g, 6000g, 8000g | 2500g, 5000g, 7500g, 10000g |
| Weighing Units                                      | g, ct, N, oz, ozt, Grain, dwt, mo, msg, tl H, tl S, tl T, tcl, tola, baht, lb, kg, Custom 1, Custom 2   |                            |                             |
| Applications  | Basic Weighing, Parts Counting, Check Counting, Percent Weighing, Check Weighing, Dynamic Weighing, Totalization, Formulation, Differential, Density Determination, Peak Hold |                            |                             |
| Stabilization Time (typical)                        | ≤ 1 second  |                            |                             |
| Sensitivity Temperature Drift (ppm/°C)              | 5   | 3                          | 3                           |
| Min-Weight (typical) (K=2, U=1%)                    | 14 mg   |                            |                             |
| Min-Weight (typical) (USP, K=2, U=0.10%)            | 140 g   |                            |                             |
| Min-Weight (optimal) (USP, K=2, U=0.10%, SRP≤0.41d) | 82 g  |                            |                             |
| Terminal Display                                    | 7-inch TFT 16.7M Color<br>Touch Screen with Glass Overlay   |                            |                             |
| Display Resolution                                  | 800 x 480 Pixels  |                            |                             |
| Communication                                       | USB Host (Type A) x 2, USB Device (Type C) x 1<br>Ethernet (RJ45) x 1, RS232 x 1; Optional Wi-Fi, Bluetooth Dongle  |                            |                             |
| Leveling System                                     | 2 Leveling Feet with Digital Leveling Bubble  |                            |                             |
| Power Supply  | AC Adapter Input: 100-240 VAC 0.5A 50-60 Hz<br>AC Adapter Output: 12 VDC 1.5A   |                            |                             |
| Weighing Pan Size                                   | Trapezoid Pan 178mm x 201mm   |                            |                             |
| Touchless Sensor                                    | 2 Touchless Sensors on the terminal   |                            |                             |
| Terminal Status Lights                              | Standard, 7-color Selectable  |                            |                             |
| Assembled Dimensions (W x D x H)                    | 230mm x 393mm x 96mm  |                            |                             |
| Shipping Dimensions (W x D x H)                     | 385mm x 590mm x 311mm   |                            |                             |
| Net Weight  | 4.9 kg  |                            |                             |
| Shipping Weight                                     | 7.1 kg  |                            |                             |

# EXPLORER™ Analytical and Precision Balances

## Outline Dimensions











## Approvals

- **Metrology:** NIST Handbook 44, Measurement Canada Weights and Measures Regulations
- **Product Safety:** IEC/EN 61010-1; CAN/CSA C22.2 61010-1; UL 61010-1
- **Electromagnetic Compatibility:** IEC/EN 61326-1 Class B, Basic Environments; FCC Part 15 Class A; Canada ICES-003 Class A

# EXPLORER™ Analytical and Precision Balances

## Accessories

|   |                |                                     |
|---|----------------|-------------------------------------|
|     | Item No.       | 30944360                            |
|   | Accessory Name | Bluetooth Printer, Impact, SF40A/BT |
|    | Item No.       | 30064203                            |
|   | Accessory Name | Printer, Impact, SF40A              |
|    | Item No.       | 31059239                            |
|   | Accessory Name | BT dongle and Wi-Fi dongle LM842    |
|    | Item No.       | 30130302                            |
|   | Accessory Name | Static Ionizer, ION-100A            |
|     | Item No.       | 31059237                            |
|   | Accessory Name | Weighing Kit                        |
|    | Item No.       | 80253384                            |
|   | Accessory Name | Density Kit, Solids                 |
|   | Item No.       | 83034024                            |
|   | Accessory Name | Sinker, Glass, Liquid, Density Kit  |
|  | ItemNo.        | 12120799                            |
|   | Accessory Name | SF40A Paper roll (57,5mm 2pcs)      |
|   | Item No.       | 30529322                            |
|   | Accessory Name | SF40A Ink Ribbon Cassette           |

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