



## ***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 cells.

- **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                 |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|
| 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                 |
| Linearity Deviation Typical                         | 0.06 mg                                                                                                                                                                       | 0.06 mg               | 0.06 mg                |
| Linearity Deviation                                 | 0.2 mg                                                                                                                                                                        | 0.2 mg                | 0.2 mg                 |
| 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                                                                             |                       |                        |
| 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<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 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                                                                                                                                                                       |                       |                        |

# EXPLORER™ Precision Balances

## Specifications



| Model                                               | EXR223                                                                                                                                                                        | EXR423                 | EXR623                 | EXR1203                 |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|-------------------------|
| 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                    |
| Linearity Deviation Typical                         | 0.6 mg                                                                                                                                                                        | 0.6 mg                 | 0.6 mg                 | 0.6 mg                  |
| 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)      |                        |                        |                         |
| 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                                                                                                                                                                       |                        |                        |                         |

# EXPLORER™ Precision Balances

## Specifications



| Model                                               | EXR2202                                                                                                                                                                       | EXR4202                    | EXR6202                    | EXR8202                    | EXR12202                     |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|----------------------------|------------------------------|
| 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                       |
| 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                       |
| 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                                                                       |                            |                            |                            |                              |
| 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                                                                                                                                                                        |                            |                            |                            |                              |

# EXPLORER™ Precision Balances

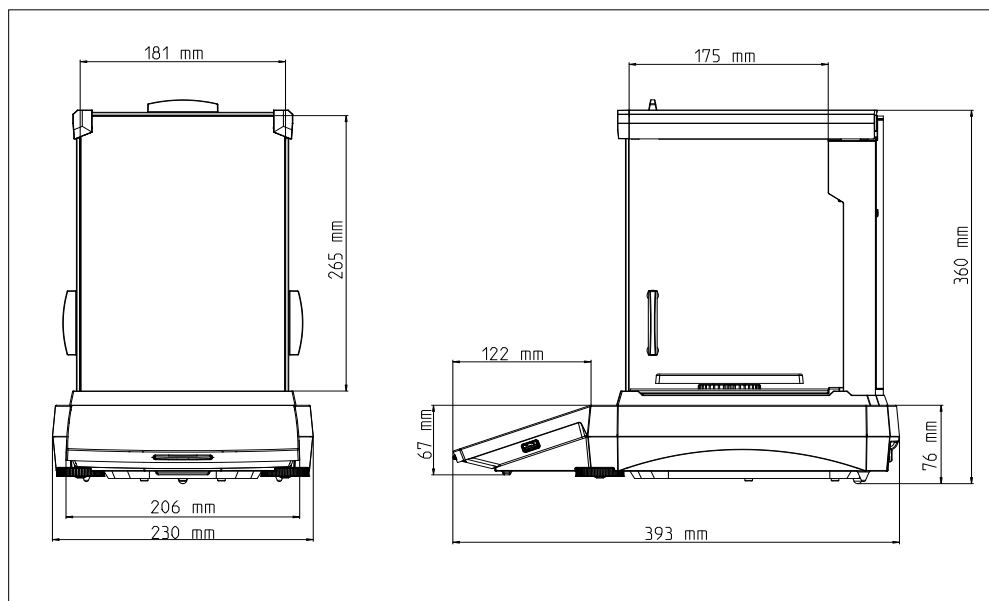
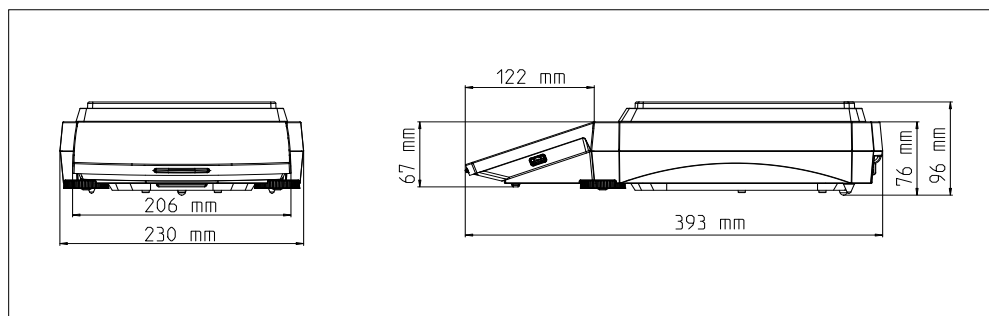
## Specifications



| 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                             | 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 g                                                                                                                                                                          |                            |                             |
| 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:** OIML R76
- **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.       | 30944358                            |
|                                                                                  | Accessory Name | Bluetooth Printer, Impact, SF40A/BT |

|                                                                                  |                |                        |
|----------------------------------------------------------------------------------|----------------|------------------------|
|  | Item No.       | 30045641               |
|                                                                                  | Accessory Name | Printer, Impact, SF40A |

|                                                                                  |                |                                  |
|----------------------------------------------------------------------------------|----------------|----------------------------------|
|  | Item No.       | 31059239                         |
|                                                                                  | Accessory Name | BT dongle and Wi-Fi dongle LM842 |

|                                                                                   |                |                          |
|-----------------------------------------------------------------------------------|----------------|--------------------------|
|  | Item No.       | 30130303                 |
|                                                                                   | 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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With offices throughout  
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