



## ***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                     |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------|
|                                                        | EXR124M                                                                                                                                                                             | EXR224M                   | EXR324M                    |
| Capacity                                               | 120 g                                                                                                                                                                               | 220 g                     | 320 g                      |
| Readability d                                          | 0,1 mg                                                                                                                                                                              | 0,1 mg                    | 0,1 mg                     |
| Repeatability (sd.),<br>≤5% of Full Load Typical       | 0,05 mg                                                                                                                                                                             | 0,05 mg                   | 0,05 mg                    |
| Repeatability (sd.),<br>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                     |
| Verification Interval, e<br>(EXP...M.. models only)    | 1 mg                                                                                                                                                                                | 1 mg                      | 1 mg                       |
| Approval Class<br>(EXP...M.. models only)              | Class I                                                                                                                                                                             | Class I                   | Class I                    |
| Span Calibration Points                                | 25 g, 50 g, 75 g, 100 g                                                                                                                                                             | 50 g, 100 g, 150 g, 200 g | 100 g, 150 g, 200 g, 300 g |
| Weighing Units                                         | g, mg, ct, N, oz, ozt, Grain, dwt, mo, msg, tl H, tl S, tl T, tcl, tola, baht,<br>Custom 1, Custom 2                                                                                |                           |                            |
| Weighing Units<br>(EXR...M.. model only)               | g, mg, ct                                                                                                                                                                           |                           |                            |
| Applications                                           | Basic Weighing, Parts Counting, Check Counting, Percent Weighing,<br>Check Weighing, Dynamic Weighing, Totalization, Formulation,<br>Differential, Density Determination, Peak Hold |                           |                            |
| Stabilization Time (typical)                           | 2 seconds                                                                                                                                                                           |                           |                            |
| Sensitivity Temperature Drift<br>(ppm/°C)              | 1,5                                                                                                                                                                                 |                           |                            |
| Min-Weight (typical)<br>(K=2, U=1%)                    | 10 mg                                                                                                                                                                               |                           |                            |
| Min-Weight (typical)<br>(USP, K=2, U=0,10%)            | 100 mg                                                                                                                                                                              |                           |                            |
| Min-Weight (optimal)<br>(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 × 480 Pixels                                                                                                                                                                    |                           |                            |
| Communication                                          | USB Host (Type A) × 2, USB Device (Type C) × 1,<br>Ethernet (RJ45) × 1, RS232 × 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 90 mm × 90 mm                                                                                                                                                            |                           |                            |
| Touchless Sensor                                       | 2 Touchless Sensors on the terminal                                                                                                                                                 |                           |                            |
| Draftshield with anti-static coating                   | Standard                                                                                                                                                                            |                           |                            |
| Terminal Status Lights                                 | Standard, 7-color Selectable                                                                                                                                                        |                           |                            |
| Assembled Dimensions (W × D × H)                       | 230 mm × 393 mm × 370 mm                                                                                                                                                            |                           |                            |
| Shipping Dimensions (W × D × H)                        | 415 mm × 630 mm × 561 mm                                                                                                                                                            |                           |                            |
| Net Weight                                             | 7,4 kg                                                                                                                                                                              |                           |                            |
| Shipping Weight                                        | 10,2 kg                                                                                                                                                                             |                           |                            |

# EXPLORER™ Precision Balances

## Specifications



| Model                                                  | EXR223                                                                                                                                                                        | EXR423                     | EXR623                     | EXR1203                      |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|------------------------------|
|                                                        | EXR223M                                                                                                                                                                       | EXR423M                    | EXR623M                    | EXR1203M                     |
| Capacity                                               | 220 g                                                                                                                                                                         | 420 g                      | 620 g                      | 1 200 g                      |
| Readability d                                          | 1 mg                                                                                                                                                                          | 1 mg                       | 1 mg                       | 1 mg                         |
| Repeatability (sd.),<br>≤5% of Full Load Typical       | 0,7 mg                                                                                                                                                                        | 0,7 mg                     | 0,7 mg                     | 0,7 mg                       |
| Repeatability (sd.),<br>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                       |
| Linearity Deviation                                    | 2 mg                                                                                                                                                                          | 2 mg                       | 2 mg                       | 2 mg                         |
| Verification Interval, e<br>(EXP...M.. models only)    | 10 mg                                                                                                                                                                         | 10 mg                      | 10 mg                      | 10 mg                        |
| Approval Class<br>(EXP...M.. models only)              | Class II                                                                                                                                                                      | Class II                   | Class II                   | Class I                      |
| Span Calibration Points                                | 50 g, 100 g, 150 g, 200 g                                                                                                                                                     | 100 g, 200 g, 300 g, 400 g | 300 g, 400 g, 500 g, 600 g | 400 g, 600 g, 800 g, 1 000 g |
| 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 ≥ 1 200 g)     |                            |                            |                              |
| Weighing Units<br>(EXR...M.. model only)               | g, mg, ct,<br>kg (models with capacity ≥ 1 200 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<br>(ppm/°C)              | 3                                                                                                                                                                             |                            |                            |                              |
| Min-Weight (typical)<br>(K=2, U=1%)                    | 0,14 g                                                                                                                                                                        |                            |                            |                              |
| Min-Weight (typical)<br>(USP, K=2, U=0,10%)            | 1,4 g                                                                                                                                                                         |                            |                            |                              |
| Min-Weight (optimal)<br>(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 × 480 Pixels                                                                                                                                                              |                            |                            |                              |
| Communication                                          | USB Host (Type A) × 2, USB Device (Type C) × 1,<br>Ethernet (RJ45) × 1, RS232 × 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 130 mm × 130 mm                                                                                                                                                    |                            |                            |                              |
| Touchless Sensor                                       | 2 Touchless Sensors on the terminal                                                                                                                                           |                            |                            |                              |
| Draftshield with anti-static coating                   | Standard                                                                                                                                                                      |                            |                            |                              |
| Terminal Status Lights                                 | Standard, 7-color Selectable                                                                                                                                                  |                            |                            |                              |
| Assembled Dimensions (W × D × H)                       | 230 mm × 393 mm × 370 mm                                                                                                                                                      |                            |                            |                              |
| Shipping Dimensions (W × D × H)                        | 415 mm × 630 mm × 561 mm                                                                                                                                                      |                            |                            |                              |
| Net Weight                                             | 7,4 kg                                                                                                                                                                        |                            |                            |                              |
| Shipping Weight                                        | 10,2 kg                                                                                                                                                                       |                            |                            |                              |

# EXPLORER™ Precision Balances

## Specifications



| Model                                                  | EXR2202                                                                                                                                                                             | EXR4202                               | EXR6202                               | EXR8202                               | EXR12202                                |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------------|
|                                                        | EXR2202M                                                                                                                                                                            | EXR4202M                              | EXR6202M                              | EXR8202M                              | EXR12202M                               |
| Capacity                                               | 2 200 g                                                                                                                                                                             | 4 200 g                               | 6 200 g                               | 8 200 g                               | 12 200 g                                |
| Readability d                                          | 0,01 g                                                                                                                                                                              | 0,01 g                                | 0,01 g                                | 0,01 g                                | 0,01 g                                  |
| Repeatability (sd.),<br>≤5% of Full Load Typical       | 0,007 g                                                                                                                                                                             | 0,007 g                               | 0,007 g                               | 0,007 g                               | 0,007 g                                 |
| Repeatability (sd.),<br>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                                  |
| Verification Interval, e<br>(EXP...M.. models only)    | 0,1 g                                                                                                                                                                               | 0,1 g                                 | 0,1 g                                 | 0,1 g                                 | 0,1 g                                   |
| Approval Class<br>(EXP...M.. models only)              | Class II                                                                                                                                                                            | Class II                              | Class II                              | Class II                              | Class I                                 |
| Span Calibration Points                                | 500 g, 1 000 g,<br>1 500 g, 2 000 g                                                                                                                                                 | 1 000 g, 2 000 g,<br>3 000 g, 4 000 g | 2 000 g, 3 000 g,<br>4 000 g, 6 000 g | 2 000 g, 4 000 g,<br>6 000 g, 8 000 g | 6 000 g, 8 000 g,<br>10 000 g, 12 000 g |
| 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<br>(EXR...M.. model only)               | g, ct, kg                                                                                                                                                                           |                                       |                                       |                                       |                                         |
| Applications                                           | Basic Weighing, Parts Counting, Check Counting, Percent Weighing,<br>Check Weighing, Dynamic Weighing, Totalization, Formulation,<br>Differential, Density Determination, Peak Hold |                                       |                                       |                                       |                                         |
| Stabilization Time (typical)                           | ≤ 1 second                                                                                                                                                                          |                                       |                                       |                                       |                                         |
| Sensitivity Temperature Drift<br>(ppm/°C)              | 3                                                                                                                                                                                   |                                       |                                       |                                       |                                         |
| Min-Weight (typical)<br>(K=2, U=1%)                    | 1,4 g                                                                                                                                                                               |                                       |                                       |                                       |                                         |
| Min-Weight (typical)<br>(USP, K=2, U=0,10%)            | 14 g                                                                                                                                                                                |                                       |                                       |                                       |                                         |
| Min-Weight (optimal)<br>(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                                     | 800×480 Pixels                                                                                                                                                                      |                                       |                                       |                                       |                                         |
| Communication                                          | USB Host (Type A)×2, USB Device (Type C)×1,<br>Ethernet (RJ45)×1, RS232×1; 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 178 mm×201 mm                                                                                                                                                         |                                       |                                       |                                       |                                         |
| Touchless Sensor                                       | 2 Touchless Sensors on the terminal                                                                                                                                                 |                                       |                                       |                                       |                                         |
| Terminal Status Lights                                 | Standard, 7-color Selectable                                                                                                                                                        |                                       |                                       |                                       |                                         |
| Assembled Dimensions (W×D×H)                           | 229 mm×391 mm×95 mm                                                                                                                                                                 |                                       |                                       |                                       |                                         |
| Shipping Dimensions (W×D×H)                            | 385 mm×590 mm×311 mm                                                                                                                                                                |                                       |                                       |                                       |                                         |
| Net Weight                                             | 4,9 kg                                                                                                                                                                              |                                       |                                       |                                       |                                         |
| Shipping Weight                                        | 7,1 kg                                                                                                                                                                              |                                       |                                       |                                       |                                         |

# EXPLORER™ Precision Balances

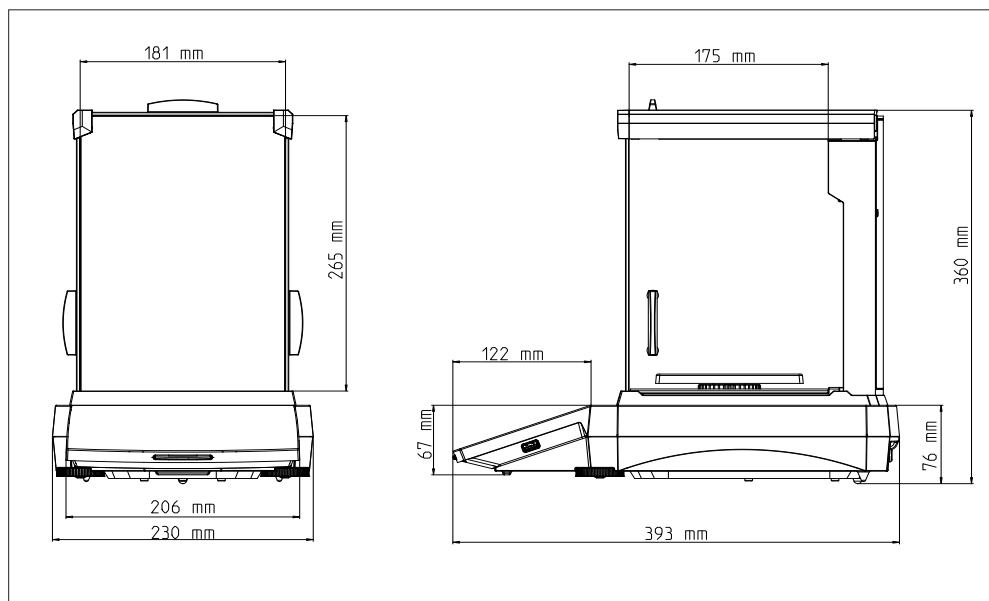
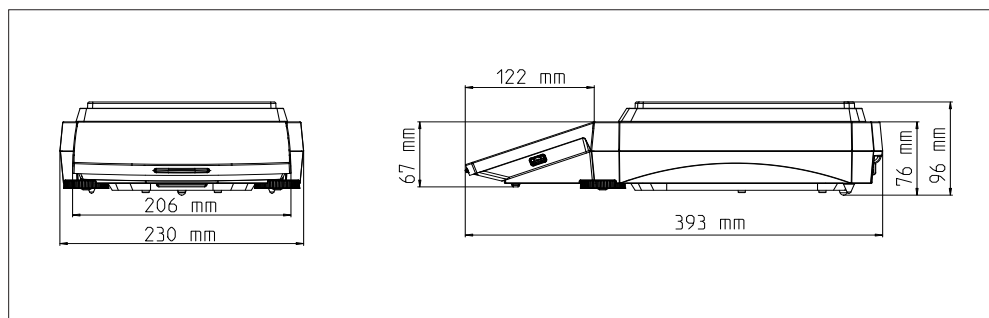
## Specifications



| Model                                                  | EXR6201                                                                                                                                                                             | EXR8201                               | EXR10201                               |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------|
|                                                        | EXR6201M                                                                                                                                                                            | EXR8201M                              | EXR10201M                              |
| Capacity                                               | 6 200 g                                                                                                                                                                             | 8 200 g                               | 10 200 g                               |
| Readability d                                          | 0,1 g                                                                                                                                                                               | 0,1 g                                 | 0,1 g                                  |
| Repeatability (sd.),<br>≤5% of Full Load Typical       | 0,07 g                                                                                                                                                                              | 0,07 g                                | 0,07 g                                 |
| Repeatability (sd.),<br>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                                  |
| Verification Interval, e<br>(EXP...M.. models only)    | 0,1 g                                                                                                                                                                               | 0,1 g                                 | 0,1 g                                  |
| Approval Class<br>(EXP...M.. models only)              | Class II                                                                                                                                                                            | Class II                              | Class I                                |
| Span Calibration Points                                | 2 000 g, 3 000 g,<br>4 000 g, 6 000 g                                                                                                                                               | 2 000 g, 4 000 g,<br>6 000 g, 8 000 g | 2 500 g, 5 000 g,<br>7 500 g, 10 000 g |
| 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<br>(EXR...M.. model only)               | g, ct, kg                                                                                                                                                                           |                                       |                                        |
| Applications                                           | Basic Weighing, Parts Counting, Check Counting, Percent Weighing,<br>Check Weighing, Dynamic Weighing, Totalization, Formulation,<br>Differential, Density Determination, Peak Hold |                                       |                                        |
| Stabilization Time (typical)                           | ≤ 1 second                                                                                                                                                                          |                                       |                                        |
| Sensitivity Temperature Drift<br>(ppm/°C)              | 5                                                                                                                                                                                   | 3                                     | 3                                      |
| Min-Weight (typical)<br>(K=2, U=1%)                    | 14 g                                                                                                                                                                                |                                       |                                        |
| Min-Weight (typical)<br>(USP, K=2, U=0,10%)            | 140 g                                                                                                                                                                               |                                       |                                        |
| Min-Weight (optimal)<br>(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 × 480 Pixels                                                                                                                                                                    |                                       |                                        |
| Communication                                          | USB Host (Type A) × 2, USB Device (Type C) × 1,<br>Ethernet (RJ45) × 1, RS232 × 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 178 mm × 201 mm                                                                                                                                                       |                                       |                                        |
| Touchless Sensor                                       | 2 Touchless Sensors on the terminal                                                                                                                                                 |                                       |                                        |
| Terminal Status Lights                                 | Standard, 7-color Selectable                                                                                                                                                        |                                       |                                        |
| Assembled Dimensions (W × D × H)                       | 230 mm × 393 mm × 96 mm                                                                                                                                                             |                                       |                                        |
| Shipping Dimensions (W × D × H)                        | 385 mm × 590 mm × 311 mm                                                                                                                                                            |                                       |                                        |
| Net Weight                                             | 4,9 kg                                                                                                                                                                              |                                       |                                        |
| Shipping Weight                                        | 7,1 kg                                                                                                                                                                              |                                       |                                        |

# EXPLORER™ *Analytical and Precision Balances*

## Outline Dimensions



## Approvals

- **Metrology:** OIML R76, EN 45501
- **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.       | 30944359                            |
|                                                                                     | Accessory Name | Bluetooth Printer, Impact, SF40A/BT |
|     | Item No.       | 30064202                            |
|                                                                                     | Accessory Name | Printer, Impact, SF40A              |
|     | Item No.       | 31059239                            |
|                                                                                     | Accessory Name | BT dongle and Wi-Fi dongle LM842    |
|    | Item No.       | 30095929                            |
|                                                                                     | 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  |
|  | Item No.       | 12120799                            |
|                                                                                     | Accessory Name | SF40A Paper roll (57,5 mm 2 pcs)    |
|   | Item No.       | 30529322                            |
|                                                                                     | Accessory Name | SF40A Ink Ribbon Cassette           |

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*The management system governing the manufacture of this product is ISO 9001:2015 certified.*

