Excellence XSE Analytical Balances

Exceptionally Hard-working

XSE Analytical Balances offer exceptional weighing performance and quality assurance features as well as excellent ergonomics. They are the perfect workhorse solution for a multitude of workplaces.

The innovative StatusLight takes the worry out of weighing. The clearly visible green light lets you know when it’s safe to start – all tests are up-to-date and the balance is level and functioning correctly.

With a wide range of accessories available and multiple connectivity options, XSE balances open up a world of opportunities for different weighing applications.

Designed, engineered and manufactured in Switzerland for outstanding quality you can trust.

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StatusLight™ – Balance Ready
The StatusLight uses color to indicate intuitively the status of the balance. Green means ready, yellow is a warning and errors are shown with red. The clearly visible light communicates if the balance is ready for you to start your weighing task.

Eliminating Charge – Sample OK
The compact antistatic kit fixes onto the side of your balance to gently and effectively eliminate electrostatic charge without causing turbulence in the weighing chamber. Results are more accurate and cross-contamination is avoided.

RFID Solutions
SmartSample™ RFID tags enable secure transfer of titration sample information from your balance to your titrator. SmartScan™ checks test and calibration dates on tagged pipettes. The built-in application guides you through the pipette check process.

LabX – Processes Under Control
LabX laboratory software provides flexible SOP user guidance on the balance touchscreen. Automatic data handling, calculations and report generation eliminate transcription errors and assure full traceability.

Worry-free Weighing
Thanks to Intelligent Efficiency

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### Technical Specifications

#### Limit Values

<table>
<thead>
<tr>
<th></th>
<th>XSE105DU</th>
<th>XSE104</th>
<th>XSE205DU</th>
<th>XSE204</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum capacity</td>
<td>120 g</td>
<td>120 g</td>
<td>220 g</td>
<td>220 g</td>
</tr>
<tr>
<td>Readability</td>
<td>0.1 mg</td>
<td>0.1 mg</td>
<td>0.1 mg</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>Readability, fine range</td>
<td>0.01 mg</td>
<td>–</td>
<td>0.01 mg</td>
<td>–</td>
</tr>
<tr>
<td>Tare range (from ... to)</td>
<td>0 ... 120 g</td>
<td>0 ... 120 g</td>
<td>0 ... 220 g</td>
<td>0 ... 220 g</td>
</tr>
<tr>
<td>Maximum capacity, fine range</td>
<td>41 g</td>
<td>–</td>
<td>81 g</td>
<td>–</td>
</tr>
<tr>
<td>Repeatability (nominal) (sd)</td>
<td>0.1 mg (100 g)</td>
<td>0.1 mg (100 g)</td>
<td>0.1 mg (200 g)</td>
<td>0.1 mg (200 g)</td>
</tr>
<tr>
<td>Repeatability (5% load) (sd)</td>
<td>0.02 mg</td>
<td>0.07 mg</td>
<td>0.02 mg</td>
<td>0.07 mg</td>
</tr>
<tr>
<td>Linearity deviation</td>
<td>0.2 mg</td>
<td>0.2 mg</td>
<td>0.2 mg</td>
<td>0.2 mg</td>
</tr>
<tr>
<td>Eccentricity (test load)</td>
<td>0.3 mg (50 g)</td>
<td>0.3 mg (50 g)</td>
<td>0.3 mg (100 g)</td>
<td>0.3 mg (100 g)</td>
</tr>
<tr>
<td>Sensitivity offset (test weight)</td>
<td>0.8 mg (100 g)</td>
<td>1 mg (100 g)</td>
<td>0.8 mg (200 g)</td>
<td>1 mg (200 g)</td>
</tr>
<tr>
<td>Sensitivity temperature drift</td>
<td>0.00015%/°C</td>
<td>0.00015%/°C</td>
<td>0.00015%/°C</td>
<td>0.00015%/°C</td>
</tr>
<tr>
<td>Sensitivity stability</td>
<td>0.002%/a</td>
<td>0.002%/a</td>
<td>0.002%/a</td>
<td>0.002%/a</td>
</tr>
</tbody>
</table>

#### Typical values

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<tr>
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</thead>
<tbody>
<tr>
<td>Repeatability (5% load) (sd)</td>
<td>0.01 mg</td>
<td>0.04 mg</td>
<td>0.01 mg</td>
<td>0.04 mg</td>
</tr>
<tr>
<td>Linearity deviation</td>
<td>0.13 mg</td>
<td>0.13 mg</td>
<td>0.13 mg</td>
<td>0.13 mg</td>
</tr>
<tr>
<td>Eccentricity (test load)</td>
<td>0.15 mg (50 g)</td>
<td>0.15 mg (50 g)</td>
<td>0.16 mg (100 g)</td>
<td>0.16 mg (100 g)</td>
</tr>
<tr>
<td>Sensitivity offset (test weight)</td>
<td>0.4 mg (100 g)</td>
<td>0.6 mg (100 g)</td>
<td>0.6 mg (200 g)</td>
<td>0.8 mg (200 g)</td>
</tr>
<tr>
<td>USP minimum sample weight (5% load, k=2, U=0.1%)</td>
<td>20 mg</td>
<td>80 mg</td>
<td>20 mg</td>
<td>80 mg</td>
</tr>
<tr>
<td>Minimum sample weight (5% load, k=2, U=1%)</td>
<td>2 mg</td>
<td>8 mg</td>
<td>2 mg</td>
<td>8 mg</td>
</tr>
<tr>
<td>Setting time</td>
<td>1.5 s</td>
<td>1.5 s</td>
<td>1.5 s</td>
<td>1.5 s</td>
</tr>
<tr>
<td>Setting time, fine range</td>
<td>3 s</td>
<td>–</td>
<td>3 s</td>
<td>–</td>
</tr>
</tbody>
</table>

Notes: ¹ according to OIML R76; ² in the temperature range 10 to 30°C; ³ Stability of sensitivity with proFACT self-adjustment switched on; s: seconds; a: year (annum); sd: standard deviation

### Features

**Accurate Results**
- High Resolution Technology
- Internal Adjustment & Sensitivity Test
- Repeatability at 5% load, 10 µg

**Efficient Operation**
- Color Touchscreen
- User Interface in 11 Languages
- ErgoClips for Direct Dosing
- Easy Cleaning
- SmartGrid Hanging Weighing Pan
- SmartTraq Guided Dosing to Target

**Quality Assurance**
- Graphical Leveling & Level Warning
- MinWeigh Protection
- Test Manager
- FACT & GWP History
- 8 Users & Password Protection
- StatusLight

**Seamless Process**
- LabX Ready
- RFID Communication Ready
- Compact Antistatic Kit Ready
- Built-in RS232 Interface
- Optional 2nd Interface

**Resources**
- GWP®
- Good Weighing Practice™
- www.mt.com/GWP
- Mettler-Toledo AG
  Laboratory & Weighing Technologies
  CH-8606 Greifensee, Switzerland
  Tel. +41 44 944 22 11
  Fax +41 44 944 30 60
  Subject to technical changes
  © 07/2013 Mettler-Toledo AG
  30094817
  Global MarCom Switzerland

**Accessories**
- **AntiStatic Kits**
  Free-standing AntiStatic Kits remove electrostatic charge from samples and containers. Compact unit also available (attaches to the balance).

- **SmartSample™ RFID Tags**
  Transfer titration sample information securely from your balance to your titrator via the titration beaker.

- **SmartScan™**
  Check testing and calibration dates on RFID tagged pipettes. Record new test dates when you test using the balance application.

- **ErgoClips**
  Dose directly into your container. ErgoClips hold a range of different shaped vessels securely on your balance.

- **Printers**
  The robust P-50 series lab printers produce archival-quality printouts on paper as well as continuous and peel-off labels.

For further information on accessories, please visit [www.mt.com/lab-accessories](http://www.mt.com/lab-accessories)