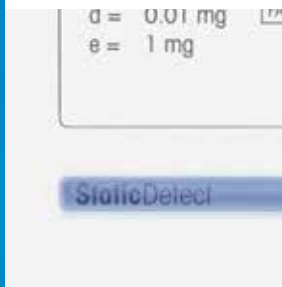# Worry-free Weighing
Follow the Green Light

StaticDetect™ – Sample OK
When static charges are detected, the weighing error is measured. If the user-defined limit is exceeded, a warning is given. For the highest process security, the user can employ anti-static measures to neutralize the charge and ensure the most accurate results.

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.

Operation – Ergonomic
The enhanced touchscreen user interface offers tireless, intuitive balance operation. SmartSens sensors allow you to operate your balance with the wave of a hand (e.g. open/close draft shield door). Tasks are easier and safer, and cross-contamination is avoided.

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.

XPE Analytical Balances
Outstanding Performance

XPE analytical balances provide outstanding performance in analytical weighing and support the highest requirements for safety, efficiency and ease of compliance. Thanks to low repeatability, XPE analytical balances offer you the smallest minimum weight.

Quality management features, such as the innovative StatusLight and patented StaticDetect technology, take the worry out of weighing and provide you with a high level of trust in your results.

With a wide range of accessories available and multiple connectivity options, XPE balances grow with your needs. You can enjoy a wealth of weighing possibilities for years to come.

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

METTLER TOLEDO

XPE Analytical Balances

Technical Specifications

Limit values	XPE105	XPE205	XPE205DR	XPE204	XPE504
Maximum capacity	120 g	220 g	220 g	220 g	520 g
Readability	0.01 mg	0.01 mg	0.1 mg	0.1 mg	0.1 mg
Readability, fine range	–	–	0.01 mg	–	–
Tare range (from … to)	0 … 120 g	0 … 220 g	0 … 220 g	0 … 220 g	0 … 520 g
Maximum capacity, fine range	–	–	81 g	–	–
Repeatability (nominal) (sd)	0.03 mg (100 g)	0.03 mg (200 g)	0.06 mg (200 g)	0.07 mg (200 g)	0.12 mg (500 g)
Repeatability (5% load) (sd)	0.015 mg	0.015 mg	0.015 mg	0.05 mg	0.08 mg (20 g)
Linearity deviation	0.10 mg	0.10 mg	0.15 mg	0.2 mg	0.4 mg
Eccentricity (test load)[1]	0.12 mg (50 g)	0.2 mg (100 g)	0.25 mg (100 g)	0.25 mg (100 g)	0.4 mg (200 g)
Sensitivity offset (test weight)	0.3 mg (100 g)	0.4 mg (200 g)	0.5 mg (200 g)	0.6 mg (200 g)	1.5 mg (500 g)
Sensitivity temperature drift [2]	0.0001%/°C	0.0001%/°C	0.0001%/°C	0.0001%/°C	0.0001%/°C
Sensitivity stability [3]	0.0001%/a	0.0001%/a	0.0001%/a	0.0001%/a	0.0001%/a
Typical values					
Repeatability (5% load) (sd)	0.007 mg	0.007 mg	0.007 mg	0.04 mg	0.04 mg (20 g)
Linearity deviation	0.065 mg	0.065 mg	0.1 mg	0.13 mg	0.32 mg
Eccentricity (test load) [1]	0.1 mg (50 g)	0.1 mg (100 g)	0.1 mg (100 g)	0.12 mg (100 g)	0.2 mg (200 g)
Sensitivity offset (test weight)	0.15 mg (100 g)	0.2 mg (200 g)	0.32 mg (200 g)	0.4 mg (200 g)	0.6 mg (500 g)
USP minimum sample weight (5% load, k=2, U=0.1%)	14 mg	14 mg	14 mg	80 mg	80 mg
Minimum sample weight (5% load, k=2, U=1%)	1.4 mg	1.4 mg	1.4 mg	8 mg	8 mg
Settling time	1.5 s	2.5 s	1.5 s	1.5 s	1.5 s
Settling time, fine range	–	–	2.5 s	–	–

[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 with Sensitivity Test
Internal Temperature Control
StaticDetect™

Efficient Operation
Color Touchscreen
User Interface in 11 Languages
ErgoClips for Direct Dosing
Easy Cleaning
SmartGrid Hanging Weighing Pan
SmartTrac Guided Dosing to Target
Automatic Draft Shield
SmartSens for Hands-free Operation

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

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

Accessories

Quantos Upgrade Kit
Automated solid and solvent dispensing modules eliminate variability and errors, and offer the highest level of accuracy and safety.

Smart Tag RFID Labels
Transfer titration sample information securely from your balance to your titrator via the titration beaker.

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

AntiStatic Kits
The compact ionizer fixes onto your balance to gently remove charge from the weighing chamber. Freestanding units also available.

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