

Reliable Results for Years to Come Follow the Green Light



StaticDetect™ – Sample OK

The new embedded technology automatically detects static charges and warns you when your results are out of tolerance. For the highest process security, you can employ antistatic measures to neutralize the charge and ensure the most accurate of results.



StatusLight™ – Secure weighing

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

An XPE balance is the perfect starting point to open up your process to automated powder and liquid dosing. Simply add Quantos modules for safety, efficiency and dosing security. For high throughput applications, an Autosampler is also available.



LabX – Seamless Processes

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.



Excellence 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 excellent 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.

XPE Analytical Balances

Limit values	XPE206DR	XPE105	XPE105DR	XPE205	XPE205DR	XPE204	XPE304	XPE504	XPE504DR
Maximum capacity	220 g	120 g	120 g	220 g	220 g	220 g	320 g	520 g	520 g
Readability	0.01 mg	0.01 mg	0.1 mg	0.01 mg	0.1 mg	0.1 mg	0.1 mg	0.1 mg	1 mg
Readability, fine range	0.005 mg	-	0.01 mg	-	0.01 mg	-	-	-	0.1 mg
Tare range (from ... to)	0 ... 220 g	0 ... 120 g	0 ... 120 g	0 ... 220 g	0 ... 220 g	0 ... 220 g	0 ... 320 g	0 ... 520 g	0 ... 520 g
Maximum capacity, fine range	81g	-	41 g	-	81 g	-	-	-	101 g
Repeatability (nominal) (sd)	0.03 mg (200g)	0.03 mg (100g)	0.06 mg (100g)	0.03 mg (200g)	0.06 mg (200g)	0.07 mg (200g)	0.2 mg (200g)	0.12 mg (500g)	0.6 mg (500g)
Repeatability (5% load) (sd)	0.015 mg	0.05 mg (10g)	0.08 mg (20g)	0.08mg (20g)	0.1mg (10g)				
Linearity deviation	0.10 mg	0.10 mg	0.15 mg	0.10 mg	0.15 mg	0.2 mg	0.3 mg	0.4 mg	0.5 mg
Eccentricity (test load) ¹	0.2 mg (100 g)	0.12 mg (50 g)	0.2 mg (50 g)	0.2 mg (100 g)	0.25 mg (100 g)	0.25 mg (100 g)	0.25 mg (100 g)	0.4 mg (200 g)	0.5 mg (200 g)
Sensitivity offset (test weight)	0.4 mg (200 g)	0.3 mg (100 g)	0.4 mg (100 g)	0.4 mg (200 g)	0.5 mg (200 g)	0.6 mg (200 g)	0.6 mg (200 g)	1.5 mg (500 g)	2 mg (500 g)
Sensitivity temperature drift ²	0.0001%/°C	0.0001%/°C	0.0001%/°C	0.0001%/°C	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	0.0001%/a	0.0001%/a	0.0001%/a	0.0001%/a
Typical values									
Repeatability (5% load) (sd)	0.005 mg	0.007 mg	0.007 mg	0.007 mg	0.007 mg	0.04 mg	0.04 mg	0.04 mg	0.04 mg
Linearity deviation	0.065 mg	0.065 mg	0.1 mg	0.065 mg	0.1 mg	0.13 mg	0.13 mg	0.32 mg	0.15 mg
Eccentricity (test load) ¹	0.1 mg (100g)	0.065 mg (50g)	0.1 mg (50g)	0.1 mg (100g)	0.1 mg (100g)	0.12 mg (100g)	0.12 mg (100g)	0.2 mg (200g)	0.2 mg (200g)
Sensitivity offset (test weight)	0.2 mg (200g)	1.5 mg (100g)	1.2 mg (100g)	0.2 mg (200g)	0.32 mg (200g)	0.4 mg (200g)	0.4 mg (200g)	0.6 mg (500g)	0.8 mg (500g)
USP minimum sample weight (5% load, k=2, U=0.10%)	10 mg	14 mg	14 mg	14 mg	14 mg	82 mg	82 mg	82 mg	82 mg
Minimum sample weight (5% load, k=2, U=1%)	1.0 mg	1.4 mg	1.4 mg	1.4 mg	1.4 mg	8.2 mg	8.2 mg	8.2 mg	8.2 mg
Settling time	2.5 s	2.5 s	1.5 s	2.5 s	1.5 s	1.5 s	1.5 s	1.5 s	1.5 s
Settling time, fine range	3.5 s	-	2.5 s	-	2.5 s	-	-	-	1.5 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 proFACT Advanced 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 TestManager™ 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.



SmartSample™ RFID tags
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. Free-standing 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

GWP®
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