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Business Area Metrology

Comparator Balances

from 0.1 µg

to 6000 kg



Impressively global with innovations and amazing solutions.

METTLER TOLEDO

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Forerunners with innovations and global competence.

In the metrology or quality assurance lab, you have to constantly make quick and accurate decisions. To do this, you need precise weighing results and to get them, a competent, experienced weighing "partner" that can offer you much more than a highly precise balance.

Professional solutions for every weight class. You can easily determine even the smallest differences in mass with METTLER TOLEDO Comparator Balances.
Our Comparator Balances provide you with the high resolution and excellent repeatability that is so critical to your weighings. We offer several models with readabilities as fine as 0.1 micrograms and capacities up to 6000 kilograms.

Complete consultation from planning on up to installation. Whether you need a few useful tips or a turn-key solution, call on METTLER TOLEDO to help find the right solution for your application. We would like nothing better than to see you profit from our comparative weighing knowledge.

Quality – controlled and assured. All METTLER TOLEDO products have been developed, manufactured and tested under the most stringent international standards. Our top-of-the-line Comparator Balance models meet the most demanding standards and tests.

Our production facilities in Greifensee (Switzerland) and Albstadt (Germany) have received the ISO 9001 QA Certificate, proof that their Quality Assurance System meets the highest standards.

ISO 9001 certified

ISO 14001 certified

Service and support worldwide. We are available with advice and help almost anywhere in the world. You may count on us for regular maintenance and checks and, of course, whenever you need a quick service response.

SERVICE

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Automatic weighing under constant pressure or vacuum	4 – 5
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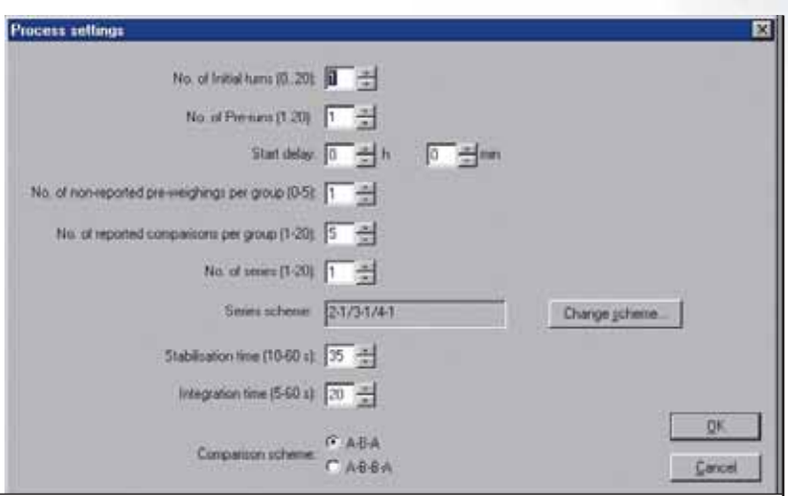
Probably the world's best repeatability up to 1 kg maximum load.

- Measurement at constant pressure with maximum repeatability
- Weighing in vacuum eliminates air buoyancy errors
- Total automation makes life easier for the user
- Solutions for special applications and customer-specific solutions

The system: world-unique. A high-resolution comparator balance, precise weight handler, vacuum chamber: together they form the M_one, the only weighing system in the world for fully automatic mass determination up to 1 kg under constant pressure or vacuum.

Pressure-controlled atmosphere. The cleverly constructed vacuum chamber allows measurements at extremely constant ambient pressures ranging from normal atmospheric pressure to an underpressure of 10^{-3} mbar. The maximum measurement accuracy of 0.1 µg is attained with a high repeatability better than 0.3 µg: probably a world record.

Weighing range up to 1 kg. The M_one gives you utmost precision for standard 1:1 comparison weighings as well as various patterns of downward calibration. Yet placing the compensation weights is easy and fast.



Programmed automation and flexibility. M_one software is Windows® based. You can configure the entire measuring process just how you want it, so it starts and runs completely automatically. The results can be further processed any way you wish.

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Vacuum transportation.
Optionally available are a vacuum lock and a vacuum transportation container. They make M_one into a seamless vacuum measuring system – an ideal configuration for research and development in gravimetric metrology.

Comparison in every form.
The weight handler with four or six platforms takes standard cylindrical or spherical weights in any combination. Under vacuum, practically error-free comparisons between weights of different volume are possible.

Model	E1	E2	F1	Max. load	Readability	Repeatability (typical)
M_one Comparator	■	■	■	1001.5 g	0.1 µg	0.1 µg

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The fully automatic solution: a_comparator line.

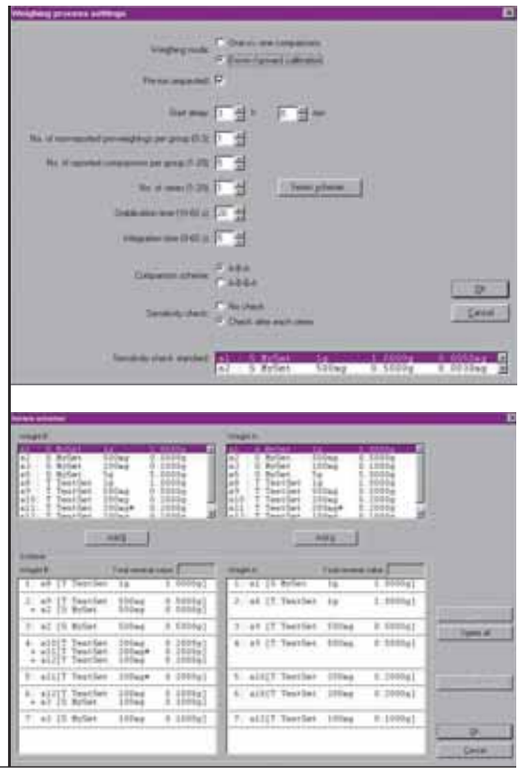
- ☐ Automation with computer-controlled 3-axis robots
- ☐ Even better repeatability
- ☐ Substantially higher accuracy
- ☐ Greater productivity thanks to large weight magazine
- ☐ Complete range for mass determinations from 1 mg to 1 kg



Systemized automation. Systems in the a_comparator line each have a high-resolution comparator balance, a weight magazine, and a 3-axis robot, as well as the housing and controller.

Systemized efficiency. At the start of the calibration procedure you insert the mass-standard weights and the weights for testing into the holders of the magazine. The robot then takes the individual weights, transfers them to the weighing pan, and returns them after weighing. You can program the sequence and weighing pattern according to your needs.

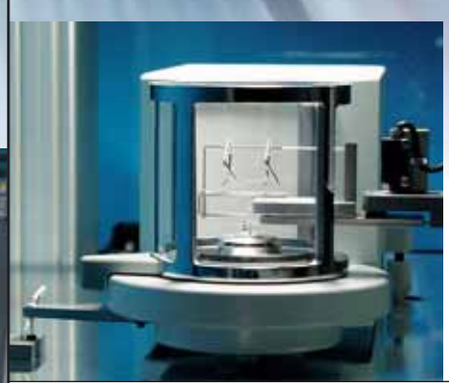
Systemized documentation. Needless to say, all weighing operations, references, allocations, and results are comprehensively documented.



Choose your program. The software of the a_comparator line is Windows® based. So you can program your procedures practically any way you like. Or you can use the familiar standard programs.

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High performance as standard.
The magazine of the a100 comparator takes 20 weights.



Large magazine, innumerable comparisons. The magazine of the a5 comparator has three rows each with twelve weight holders. You can therefore load 36 weights and automatically perform correspondingly numerous downward weight calibrations. Thanks to the special weighing pan, the robot can place up to three weights on it simultaneously.



Productivity included.
18 weights fit into the magazine of the a1000 comparator.

Model	E1	E2	F1	F2	Max. load	Readability		Repeatability (typical)
a5 comparator	■	■	■		5.1 g	0.1 µg	0 – 1 g	0.05 µg
							1 – 2 g	0.15 µg
							2 – 5 g	0.35 µg
a100 comparator	■	■	■		111 g	1 µg		0.4 µg
a1000 comparator	■	■	■	■	1009 g	0.01 mg		0.005 mg

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No comparison: comparative weighings up to 64 kg accurate to 0.1 mg.

- ☐ Mass determination up to 64 kg
- ☐ Supreme accuracy
- ☐ Total automation with four-platform weight handler
- ☐ Individual draft shield for stable measuring environment
- ☐ Large weighing platform for cylindrical, disk, and rectangular weights

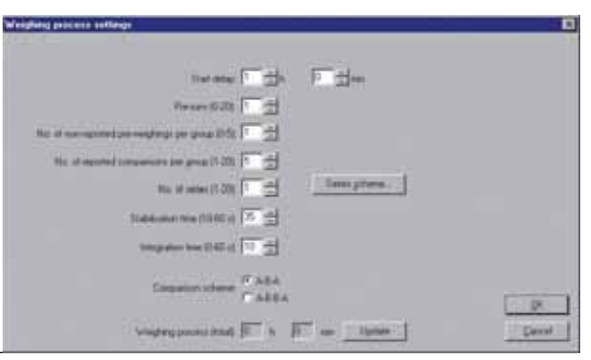


Precision for heavyweights, too.
At METTLER TOLEDO, innovative solutions are our speciality. Here's another. The AX64004 comparator performs comparison weighings up to 64 kg, with sensational 0.1 mg resolution.

Reliable and highly reproducible.
Self-centering of the weighing platform automatically gives highly reliable measurements which are always reproducible.

Seamless from 1 kg to 64 kg.
By automatically switching substitution weights in and out, the patented METTLER TOLEDO substitution weight mechanism enables mass determination of any weight between 1 kg and 64 kg.

Menu-driven, Windows-based.
Software-driven menus and dialogs guide the user through the determination process. Easily and conveniently. With correspondingly reliable results, even with different operators.



Convenience factor.
User-friendly, menu-driven software make operating the system and recording data easy and sure.

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Capacity factor. The large weighing pan allows several weights to be placed side by side and adjusted. The weights can have different shapes: cylindrical, disk, rectangular.



Certainty factor. Individual draft shields guarantee high-quality measurements and a stable measuring environment.

Productivity factor. The automatic four-platform weight handler simplifies working procedures and increases efficiency.

Model	E1	E2	F1	F2	Max. load	Readability	Repeatability (typical)
AX64004 Comparator	■	■	■	■	64 kg	0.1 mg	0.2 mg

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Superior performance – automatic operation.

- Ultimate accuracy thanks to automation
- Three models for mass determination up to 10 kg
- Automation thanks to computer control
- Easy, convenient operation

Reliability from superior technology. With their extraordinary resolution and incomparable repeatability, the AX106H, AX1006 and AX10005 Comparator Balances comprise a class of their own. They meet the highest requirements for accuracy in the determination of weight pieces of up to 10 kg. Human error is virtually eliminated because all operations are largely independent of the user. This assures that the test procedure is free of disturbance.

Cleverly designed turntable. With the AX106H you can place several weights on the turntable for each weighing position. This enables you to calibrate the weight decade 10 – 100 g without the aid of disk weights.

Wide weighing range. The entire weight range of the AX1006 is available to you – from 0 to 1011 g. This makes it possible to use the Comparator Balance without any restrictions – such as testing non-metric weights.

Saves time. By simply switching in tare weights the AX10005 can be quickly and easily set to the desired weight range such as 1, 2, 5 or 10 kg.

Records results automatically. Comparison weighings are carried out completely automatically. The measurement data are captured, evaluated, and recorded automatically, too. The standardized system structure and controls make operation easy. All measurement results are completely traceable at any time.

Automatic evaluation. Climatic data can be read directly into the controller using our highly accurate measuring station.

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AX10005:
Switch-in
tare weights



AX106H: Downward
calibration
of a weight set.

Model	E1	E2	F1	F2	Max. load	Readability	Repeatability (typical)
AX106H Comparator	■	■	■		111 g	1 µg	1.2 µg
AX1006 Comparator	■	■	■	■	1 011 g	1 µg	1.5 µg
AX10005 Comparator	■	■	■	■	10 011 g	0.01 mg	0.015 mg

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When the smallest difference counts.

- High-resolution models up to 1 kg
- WeighCom application for guided mass determination
- Easy operation via touch screen

Easy to use. You can use each balance up to its maximum capacity. With the UMX5 and the AX26, weighing is fully electronic. The doors to the weighing chamber of all three models open and close automatically. This leaves the hands free to work with the sample.

Adjusted whenever you want … The motorized calibration of the AX106 is triggered at the touch of a button.

… or whenever the balance needs it. The UMX5 and the AX26 adjust themselves automatically when changes in environmental conditions make this necessary.

Because of FACT (Fully Automatic Calibration Technology), you are always working with the highest precision.

Adapted to the environment. Modern signal processing facilitates weighing that is adapted to the application and the location. The easy configuration of the vibration adapter and the stability detector helps provide reliable results.

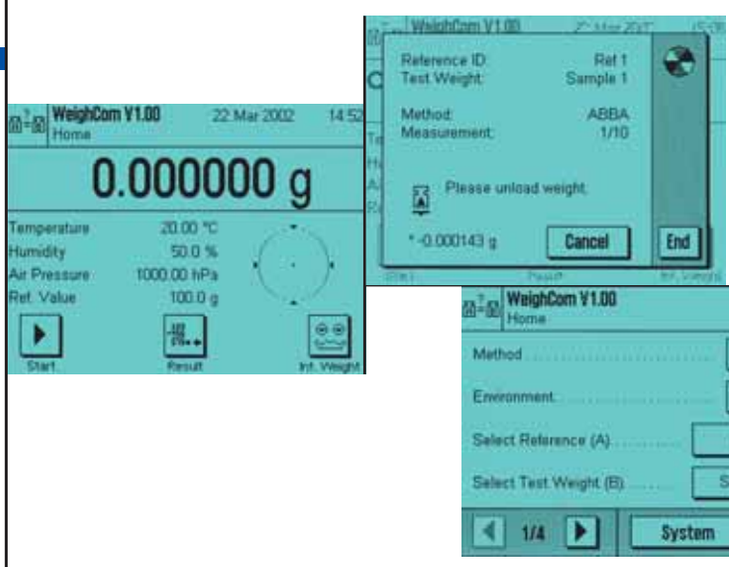
Stable conditions. In designing the UMX5, AX1005 and the AX106, we separated the electronics from the actual weighing cell. This effectively reduces any thermal influence on the weighing results.

When the sample is acclimatized in the weighing chamber, even higher stability can be achieved.

Evaluation with a system. All models are system compatible with standard built-in data interfaces. With the MCLink Software, you can evaluate the measurement data with a PC, print them out or store them for interpretation later on.



Retrofitting the AX106. If you have even greater demands on accuracy, we also offer the weight handler separately. You can use it to convert the AX106 to an AX106H and hence weigh fully automatically.



WeighCom – easy operation, clear layout. Menu-assisted process for mass determination.

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Model	E1	E2	F1	F2	Max. load	Readability	Repeatability
UMX5 Comparator	■	■	■		5.1g	0.1 µg	0.25 – 0.4 µg
AX26 Comparator	■	■	■		22 g	1 µg	2 µg
AX106 Comparator	■	■	■		111 g	1 µg	3 µg
AX1005 Comparator	■	■	■	■	1109 g	0.01 mg	0.02 mg
AX1004 Comparator	■	■	■	■	1109 g	0.1 mg	0.07 mg

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Unsurpassed and unique in this weight class.

- Highly precise mass comparisons from 15 kg to 6000 kg
- Identical operating terminal for all measuring platforms
- System capability enables customer-specific applications



12 models – one concept. You have 12 models available for weights up to 6000 kg. They all operate according to the same concept and offer unrestricted use up to the maximum capacity. Further, we can also offer you solutions with higher load ranges on request.

Adjusted at the right point. You can use the external adjustment in kilogram steps to determine your individual adjustment point yourself. Your balance is thus always optimally adjusted by using your references. In absolute weighings the tare-calibration function also offers adjustment in the net weighing range of interest.

Double resolution. A feature 3 models provide: the KA10-2/P, KA30-3/P and KA50-3/P. The readability and repeatability of these models have been improved to allow checking of weights in the E2 accuracy class. The easy-to-use draft shield and LevelMatic pan fitted as standard ensure you obtain the best possible results.

System compatibility. The ID7MC-Terminal has a serial data interface available as an option. Together with the MCLink program you can use it to link your weighing system to your EDP system.
The standard ID/MC-Pac module contains not only the software for comparison weighings. It also has additional functions which can be connected up to control external weight handlers via appropriate data interfaces and peripherals.



KA50-2/T Comparator
Practical carrying case

Customers need not necessarily take their weights to the Weights & Measures office or calibration lab. The KA50-2/T portable Weights & Measures comparator can be used to adjust weights in accuracy classes M1–M3 on the customer's premises. To make this possible, the components of the system are all integrated into a rugged carrying case. With the KA50-2/T lost time due to lengthy acclimatization and setting up the comparator is a thing of the past!

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Choice of 12 weighing platforms from 15 to 6000 kg.

Model	E2	F1	F2	M1	M2	Max. load	Readability	Repeatability
KA10-3/P Comparator	■	■	■	■		15 kg	0.001 g	0.004 g
KA10-3 Comparator		■	■	■		15 kg	0.002 g	0.006 g
KA30-3/P Comparator	■	■	■	■		30 kg	0.002 g	0.006 g
KA30-3 Comparator	■	■	■	■		30 kg	0.005 g	0.01 g
KA50-2/P Comparator	■	■	■	■		52 kg	0.005 g	0.015 g
KA50-2 Comparator	■	■	■	■		52 kg	0.01 g	0.02 – 0.03 g
KA50-2/T Comparator			■	■	■	52 kg	<12 kg: 10 mg	20 mg
							<22 kg: 20 mg	40 mg
							<52 kg: 50 mg	100 mg
KCC100-2 Comparator		■	■	■	■	150 kg	0.05 g	0.15 g
KC500-1 Comparator		■	■	■	■	600 kg	0.1 g	0.3 – 0.5 g
KC1000 Comparator			■	■	■	1200 kg	1 g	2 – 3 g
KE2000 Comparator			■	■	■	2500 kg	5 g	10 g
KE5000 Comparator					■	6000 kg	10 g	100 g

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Comparator balances for a variety of applications.



Levelmatic centering device to eliminate corner load error.



Tested in industry and government.
Industrial companies and government metrology labs both place high priority on reliability. Comparator Balances are indispensable anywhere the fines weight changes are critical.

XP Comparator Balances
The XP Comparators are delivered with state-of-the art technology:

- Intelligent user guidance for mass determination process: WeighCom application
- The self-centering device: Levelmatic
- The draftshield with patented sliding doors: pro Draftshield
- And download from the Internet for future software releases.

Model	E1	E2	F1	F2	M1	Max. load	Readability	Repeatability
XP2004S Comparator	■	■	■	■	■	2300 g	0.1 mg	0.1 mg
XP2003S Comparator		■	■	■	■	2300 g	1 mg	1 mg
XP5003S Comparator	■	■	■	■	■	5100 g	1 mg	0.8 mg
XP10 003S Comparator	■	■	■	■	■	10100 g	1 mg	1 mg

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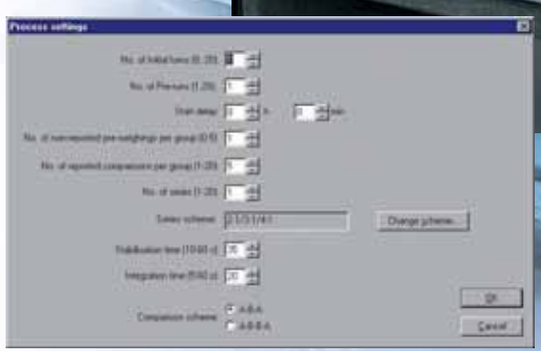
Volume and density determination from 1 g to 20 kg.

- VC1005 for automated density and volume determination up to 1 kg
- P20 for density and volume determination from 2 to 20 kg
- Timesaving, reliable, convenient system solutions

Determining the density and volume of solid bodies is very important both in industry (e.g. materials manufacturing) and in metrology. In metrology it is recommended to specify the volume and density on calibration certificates for weight pieces in the OIML accuracy class E1.

Especially versatile: VC1005.
The VC1005 is used to determine the density and volume of OIML weights and spheres made, for example, of silicon. The VC1005 covers the range up to 1 kg.





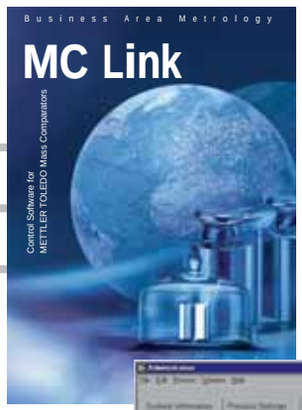


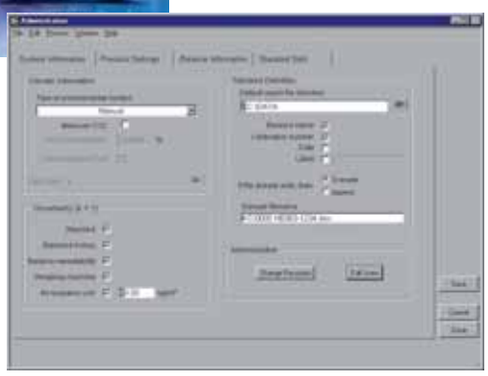
Especially reliable: P20 pycnometer.
You use this together with a comparator balance such as a KA30-3. This makes it easy to determine the desired values precisely and reliably from 2 to 20 kg.

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Expand, analyze, specialize.

- ☐ MCLink software
- ☐ Klimet A30 high-precision climate station





MCLink software

- User-friendly process guidance
- Simultaneous control of up to four comparator balances
- Compatible with all Mettler-Toledo comparator balances

Professional solution for determining weight masses. Continuous air buoyancy calculations. Simultaneous control of up to 4 comparator balances together with the Klimet A30 (for climatic parameters such as temperature, relative humidity, air pressure). User-friendly process guidance in 5 languages (E, S, D, F, I).



MCLink for controlling up to four comparator balances. Lets you program the measuring procedures with practically no restriction. Can also be used to produce measurement reports with measurement uncertainty calculations. MCLink is ready for connection to Klimet: the climatic data are used to calculate the air-buoyancy correction.

Klimet A30 high-precision climate station

- Reliable
- Accurate
- Stand-alone or networked

Klimet A30 for buoyancy corrections. This module collects the temperature, relative humidity, and air pressure data for the calculation of the air density and buoyancy correction. Up to four temperature sensors can be connected to Klimet.



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Individual weights.
Precision and stability to build on.

To provide defined and traceable reference points in the universe of mass determination, you can obtain individual OIML weights from METTLER TOLEDO. You can use them to put together your individual set of weights.

E1+ E2



Wire weight:
High-grade steel
Density: 8.0 kg/dm³
Magnetic susceptibility < 0.01
Monobloc
Plastic case



Cylindrical weight with knob:
High-grade steel
Density: 8.0 kg/dm³
Magnetic susceptibility < 0.01
Monobloc
Wooden box

Nominal value 1 mg – 50 kg

F1 + F2



Sheet weight:
1 mg – 50 mg: aluminum
Density 2.7 kg/dm³
100 mg – 500 mg: nickel silver
Density 8.7 kg/dm³
Plastic case



Cylindrical weight with knob:
High-grade steel
Density: 8.0 kg/dm³
Nonmagnetic
F1 monobloc or adjusting cavity
F2 adjusting cavity
Wooden box (F1 monobloc)
Plastic case

Nominal value 1 mg – 50 kg

M1



Sheet weight:
1 mg – 500 mg: aluminum
Density 2.7 kg/dm³



Cylindrical weight with knob:
Chromium plated brass
Density: 8.4 kg/dm³
Adjusting cavity
Plastic case

Nominal value 1 mg – 10 kg

Turned cylindrical weights

Epoxy-coated steel
Density 7.8 kg/dm³
Wooden box

Nominal value
100 kg – 2000 kg

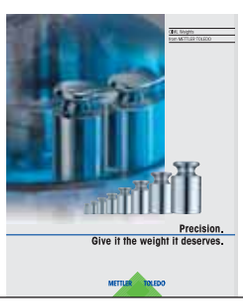


Rectangular weights M1, M2 und M3

Rectangular weight:
Cast iron
Density 7.2 kg/dm³

Nominal value
5 kg – 50 kg





You will find more information in our detailed OIML weights brochure.

Weight sets.
Balanced to perfection.

Perfectly assembled into a flexible system: weight sets from METTLER TOLEDO with high-precision OIML weights.

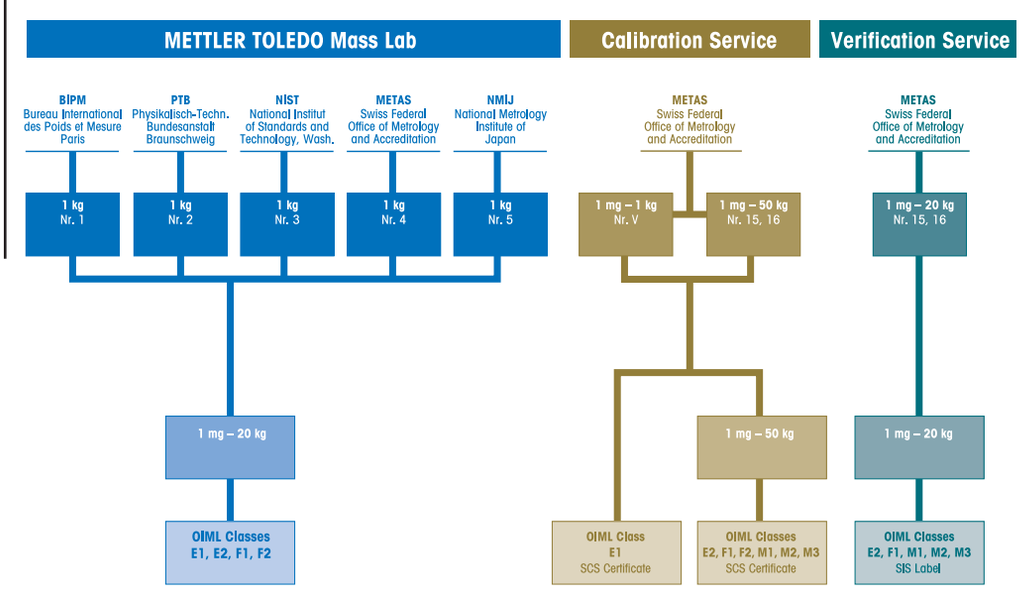


Weight set 1 mg – 1 kg E2 (15885) with tweezers, glove, and cloth



Wire weight set 1 mg – 500 mg E2 (15880) with tweezers and cloth

Traceability Chart for METTLER TOLEDO weights



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Automation in the calibration laboratory.

- AMMS: network solution for the mass laboratory
- Comprehensive network solution for the calibration laboratory

SCS (Swiss Calibration Service from METTLER TOLEDO) with AMMS (Automated Mass Measurement System). Automation is moving into mass and calibration laboratories. Integration of scales and balances into a network with software-controlled processes brings greater efficiency, consistent results, comprehensive documentation and in the end, lower costs. The AMMS network solution was conceived for automatic control of balances, data collection, data evaluation, and data archiving, as well as printing of the final measurement report. AMMS is produced and distributed by MTL Corporation/USA, an engineering company with decades of experience in metrology and software development. The comparator balance and all the sensors for measuring the air parameters are connected to a central server.



The AMMS software has three main modules:

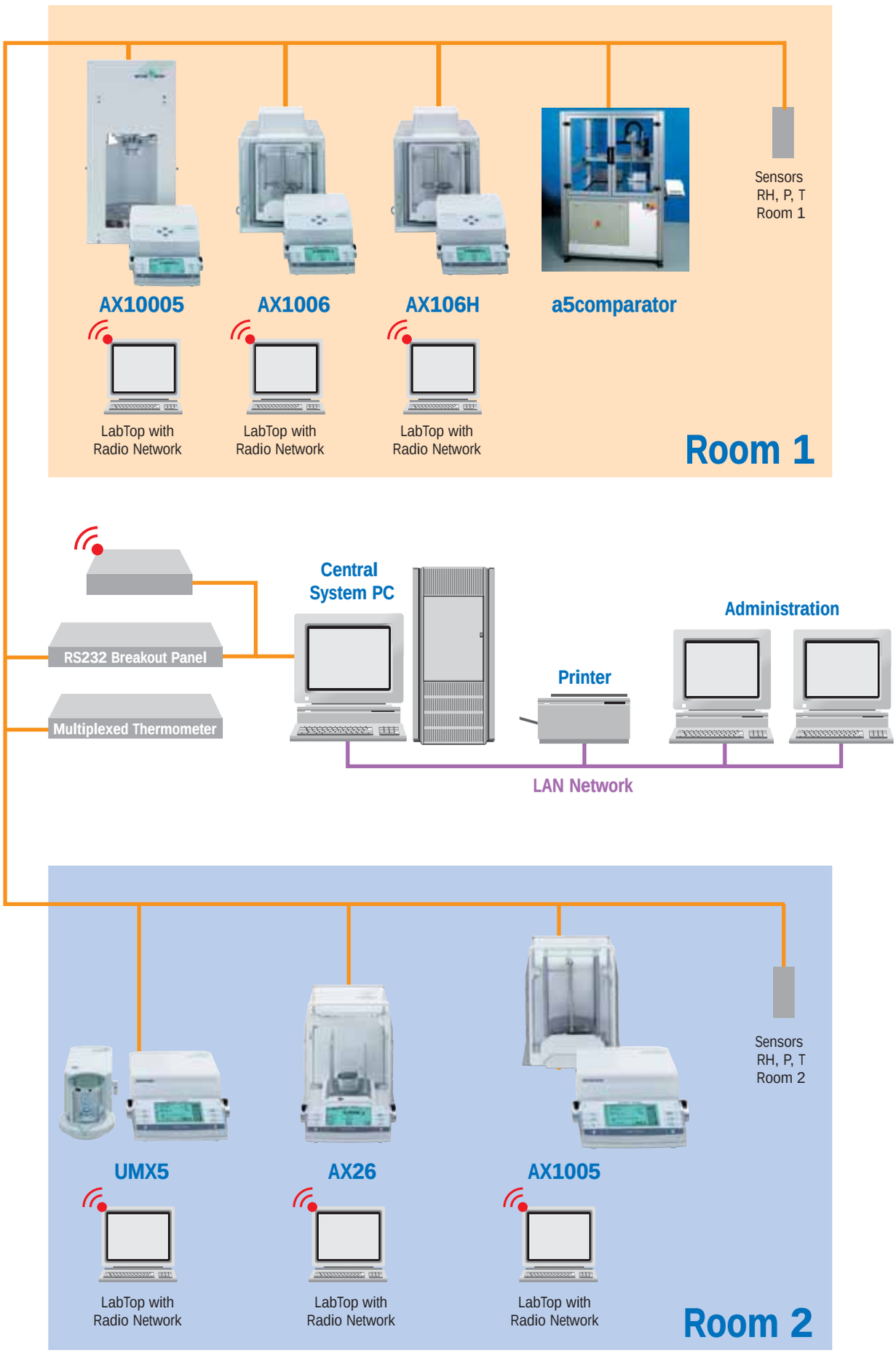
Climate module:
- Records temperature, humidity, and air pressure in the measuring laboratory and in the weighing chamber of each balance to determine the air density
- Graphical presentation of all climatic parameters

Balance module:
- Computerized configuration and monitoring of the balance settings
- Manual or automatic capture of balance data
- Statistical tests of repeatability (F tests)
- Graphically presented summary of historical balance performance data

Procedures module:
- Definition of weighing procedures
- Automatic transfer of weighing data
- Real-time air buoyancy correction
- Graphical presentation of measurement results
- Automatic production of measurement report and calibration certificate

For further information, please contact us at **metrology@mt.com** or Measurement Technology Laboratories (MTL) 10800 Normandale Blvd. Minneapolis MN 55437, USA
e-mail: **info@MTLcorp.com**
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Typical AMMS installation

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The selection of the right balance for the calibration of weights.

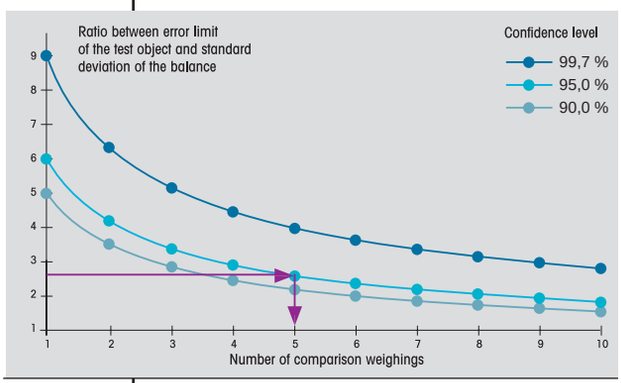
In metrology, weights conforming to the guidelines of OIML are categorized into accuracy classes E1, E2, F1, F2, M1, M2 and M3. Calibration depends on three factors. Each of these factors may reach a maximum of one third of the tolerance range of the test object to be determined. The three factors are:

The uncertainty of the standard weight. The standard weight being used should be at least one class higher than the test object, e.g. E2 standard weights should be used to calibrate weight pieces in class F1.

The uncertainty of the adjustment of the test object. For economic reasons, the adjusting procedure is terminated when the systematic deviation of the weight being tested becomes less than one third of the tolerance limit.

The uncertainty of the weighing This depends on the maximum repeatability of the balance and on the number of comparison weighings: with multiple weighings the mean value of the individual results will be closer to the true value than with a single weighing.

Also, when considering measuring uncertainties, the level of confidence must be matched to the requirements. With a level of confidence of 95%, the true value is within the given range (mean value ± measuring uncertainty) in 95 out of 100 cases and it is outside this range in five cases. In metrology, the level of confidence that is sought is usually 99.7% (high level), 95% (standard level) or 90% (low level).



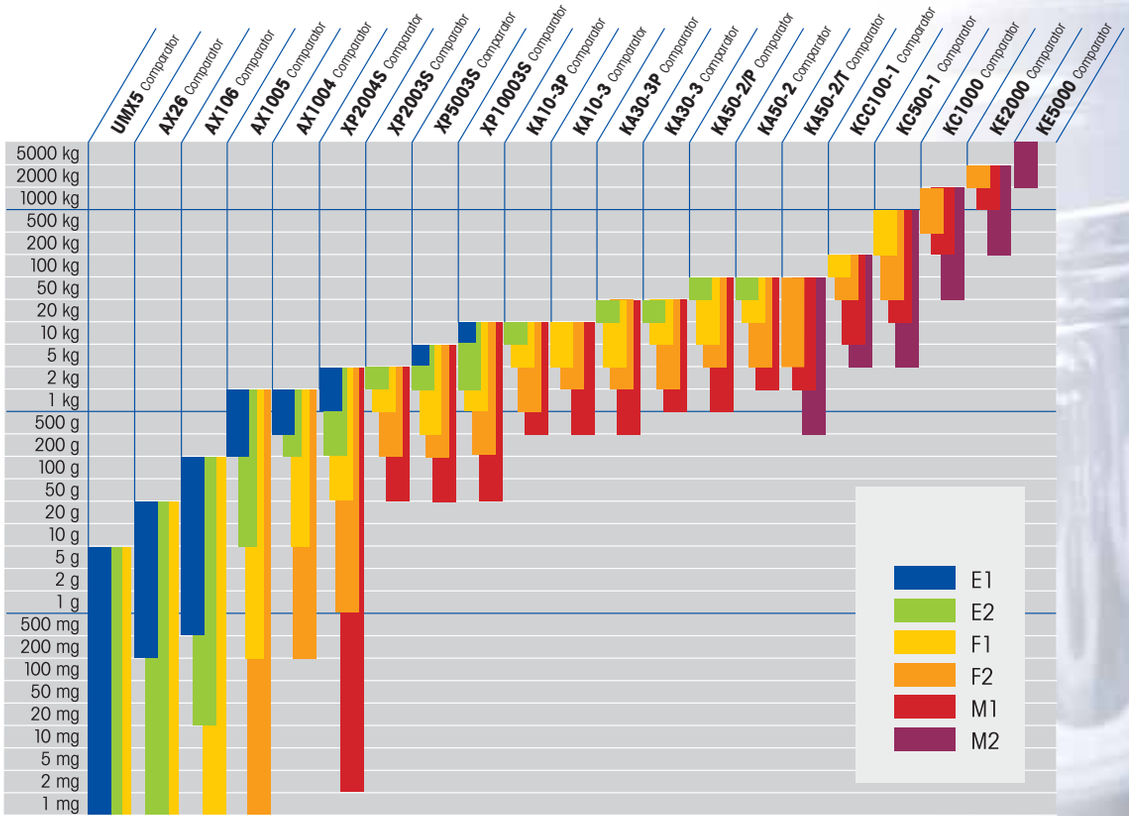
The above illustration shows the minimum ratio between the error limit of the test object and the standard deviation of the balance as a function of the number of comparative weighings and of the desired confidence level.

Tolerance limits

The maximum possible errors on verification for conventional masses are:

	E1 ±mg	E2 ±mg	F1 ±mg	F2 ±mg	M1 ±mg	M2 ±mg
1 mg	0.002	0.006	0.020	0.06	0.2	
2 mg	0.002	0.006	0.020	0.06	0.2	
5 mg	0.002	0.006	0.020	0.06	0.2	
10 mg	0.002	0.008	0.025	0.08	0.25	
20 mg	0.003	0.010	0.03	0.10	0.3	
50 mg	0.004	0.012	0.04	0.12	0.4	
100 mg	0.005	0.015	0.05	0.15	0.5	1.5
200 mg	0.006	0.020	0.06	0.20	0.6	2.0
500 mg	0.008	0.025	0.08	0.25	0.8	2.5
1 g	0.010	0.030	0.10	0.3	1.0	3
2 g	0.012	0.040	0.12	0.4	1.2	4
5 g	0.015	0.050	0.15	0.5	1.5	5
10 g	0.020	0.060	0.20	0.6	2.0	6
20 g	0.025	0.080	0.25	0.8	2.5	8
50 g	0.030	0.10	0.30	1.0	3.0	10
100 g	0.05	0.15	0.5	1.5	5	15
200 g	0.10	0.30	1.0	3.0	10	30
500 g	0.25	0.75	2.5	7.5	25	75
1 kg	0.50	1.5	5	15	50	150
2 kg	1.0	3.0	10	30	100	300
5 kg	2.5	7.5	25	75	250	750
10 kg	5	15	50	150	500	1500
20 kg	10	30	100	300	1000	3000
50 kg	25	75	250	750	2500	7500

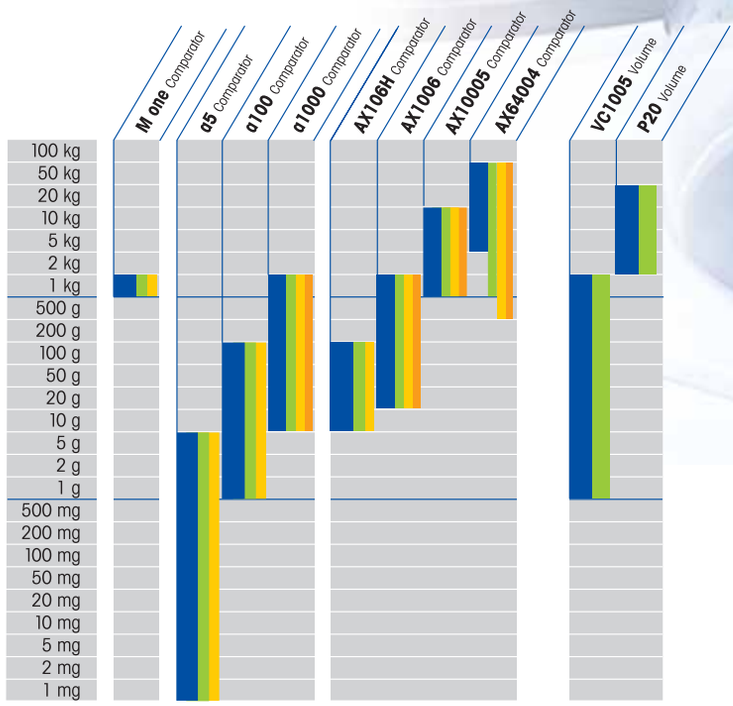
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Manual comparators

Example:

If the standard deviation of the balance is less than a fourth of the tolerance limit of the test object, a confidence level of 95 % is achieved with five comparison weighings. The illustration below shows the application range of each model based on the assumption of 95 % confidence with five comparison weighings.



Automatic comparators

For additional information, please request the METTLER TOLEDO publication “Fundamentals of Mass Determination”.

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	M_one	**a5** Comparator	**a100** Comparator	**a1000** Comparator
Readability	0.1 µg	0.1 µg	1 µg	0.01 mg
Maximum load	1001.5 g	5.1 g	111 g	1109 g
Electrical weighing range	1.5 g	0…5.1 g	0…11 g	0…109 g
Maximum repeatability (standard deviation of 10 comparison weighings after elimination of drift)	4-Pl.: 0.3 µg 6-Pl.: 0.4 µg	0-1 g: 0.15 µg 1-2 g: 0.25 µg 2-5 g: 0.40 µg	0.8 µg	0.01 mg
Repeatability (typical)	0.1 µg	0-1 g: 0.05 µg 1-2 g: 0.15 µg 2-5 g: 0.35 µg	0.4 µg	0.005 mg
Linearity (electrical weighing range)	4-Pl.: ± 1 µg / 6-Pl.: ± 2 µg	± 4 µg	± 8 µg	± 12 µg
Stabilization time (typical)	20...30 s	10...20 s	10...20 s	10...20 s
Dialing weights	External	–	50. 30. 10. 10 g	500. 300. 100. 100 g
Adjustment	Motorized adjustment of the electrical range at a keystroke			
Calibration with external weight	–	5 g	10 g	100 g
Sensitivity drift	± 1.5 ppm / °C	± 1.5 ppm / °C	± 1.5 ppm / °C	± 1.5 ppm / °C
Standard equipment				
Weight handler	4 or 6 platforms	3-axis robot	3-axis robot	3-axis robot
Maximum weight diameter	Cylindrical: 22 – 90 mm Spherical: 40 – 100 mm	Cylindrical: 4 –14 mm Wire weights: 5.5 – 18 mm Sheet weights: 4 –14 mm	6 – 26 mm	10 – 60 mm
Maximum weight height	100 mm	Cylindrical: 16 mm Wire weights: 6 mm	50 mm	85 mm
Weight magazine	–	36 positions	20 positions	18 positions
Software and controller	standard	standard	standard	standard
Vacuum housing	standard	–	–	–
Additional external draft shield	–	–	–	–
Individual draft shield per platform	–	–	–	–
LevelMatic® weighing pan	–	–	–	–
Feedthrough for below-the-balance weighing	–	–	–	–
Allowable ambient conditions				
Temperature (°C)(±1°C)	17 – 27 °C	17 – 27 °C	17 – 27 °C	17 – 27 °C
Max. temperature change (°C/24h)	0.1	0.2	0.2	0.2
Relative air humidity (%) (±2%)	45–60 %	45 – 60 %	45 – 60 %	45 – 60 %
Dimensions (WxDxH mm), net weight (kg)				
Comparator with weight handler	4-Pl.: 274 x 409 x 620; 34 6-Pl.: 344 x 440 x 620; 40	1430 x 890 x 1730; 290	1430 x 890 x 1730; 299	1430 x 890 x 1730; 308
Display unit	202 x 294 x 92; 2.5	224 x 366 x 94; 2.5	224 x 366 x 94; 2.5	224 x 366 x 94; 2.5
AC adapter	115 x 140 x 53; 1.2	115 x 140 x 53; 1.2	115 x 140 x 53; 1.2	115 x 140 x 53; 1.2
Control unit for weight handler	202 x 197 x 92; 2.5	–	–	–
AC adapter	76 x 127 x 40; 0.5	–	–	–
Vacuum housing	684 x 884 x 930; 120	–	–	–
Rack for display and control unit	–	–	–	–
Individual draft shield	–	–	–	–
Accessories				
Klimet A30	optional	optional	optional	optional
Pro-Centering gauge for weight groups	–	–	–	–
Disk weights	–	–	–	–
Software for downward weight calibrations	–	optional	optional	optional
Temperature sensor for Klimet A30	optional	optional	optional	optional
Temperature sensor holder	–	–	–	–

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AX106H Comparator



AX1006 Comparator



AX10005 Comparator



AX64004 Comparator

	1 µg	1 µg	0.01 mg	0.1 mg
	111 g	1011 g	10011 g	64260 g
	0…11 g	0…11 g	0…11 g	0…260 g
	1.5 µg	2 µg	0.022 mg	0.4 mg
	1.2 µg	1.5 µg	0.015 mg	0.2 mg
	± 8 µg	± 8 µg	± 0.05 mg	(–)
	10...20 s	10...25 s	10...25 s	25...50 s
	50. 30. 10. 10 g	500. 300. 100. 100. 50. 30. 10. 10 g	5.3.1 kg	0.25. 0.25. 0.25. 0.25. 0.25. 0.5. 0.5. 2. 2. 2. 8. 8. 8. 8. 8. 8. 8 kg
	at a keystroke	at a keystroke	at a keystroke	at a keystroke
	10 g	10 g	10 g	200 g
	± 1.5 ppm / °C	± 1.5 ppm / °C	± 1.5 ppm / °C	± 1.5 ppm / °C
	4 positions	4 positions	4 positions	4 positions
	8 ∅ 30 mm	12 ∅ 60 mm	16 ∅ 110 mm	50 – 340 mm
	70 mm	95 mm	185 mm	350 mm
	–	–	–	–
	standard	standard	standard	standard
	–	–	–	–
	standard	standard	standard	–
	–	–	–	standard. 4 pcs
	–	–	–	standard
	–	–	–	–
	17 – 27 °C	17 – 27 °C	17 – 27 °C	17 – 27 °C
	0.2	0.2	0.2	0.2
	45 – 60 %	45 – 60 %	45 – 60 %	45 – 60 %
8	252 x 407 x 418; 23	331 x 512 x 442; 25	315 x 720 x 850; 85	1200 x 1200 x 1500; 290
	224 x 366 x 94; 2.5	224 x 366 x 94; 2.5	224 x 366 x 94; 2.5	224 x 366 x 94; 2.5
	115 x 140 x 53; 1.2	115 x 140 x 53; 1.2	115 x 140 x 53; 1.2	115 x 140 x 53; 1.2
	226 x 370 x 155; 3.8	226 x 370 x 155; 3.8	226 x 370 x 155; 3.8	–
	76 x 127 x 40; 0.5	76 x 127 x 40; 0.5	76 x 127 x 40; 0.5	–
	–	–	–	–
	–	–	–	650 x 600 x 1300; 50
	–	–	–	Ø x H 380 x 370; 5
	optional	optional	optional	optional
	–	–	–	optional
	–	optional	optional	–
	–	–	–	–
	optional	optional	optional	optional
	–	–	–	optional

Important!

The stated specifications and technical data apply only under good ambient conditions. Disruptive factors at the place of installation such as strong drafts (especially from air conditioning equipment), excessive vibrations, physical effects of the items being weighed (e.g. magnetic fields or electrostatic charges), or ambient conditions outside the allowable tolerances, may have adverse effects on the specifications.

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	UMX5 Comparator	**AX26** Comparator	**AX106** Comparator
Readability	0.1 µg	1 µg	1 µg
Maximum load	5.1 g	22 g	111 g
Electrical weighing range	0…5.1 g	0…22 g	0…11 g
Repeatability	0 – 2 g: 0.25 µg 2 – 5 g: 0.40 µg	2 µg	3 µg
Linearity (electrical weighing range)	± 4 µg	± 6 µg	± 8 µg
Stabilization time (typical)	10…20 s	10…20 s	10…20 s
Dialing weights	–	–	50. 30.10.10 g
Calibration	FACT	FACT	at a keystroke
Calibration with external weight	5 g	20 g	10 g
Sensitivity drift	± 1.5 ppm / °C	± 1.5 ppm / °C	± 1.5 ppm / °C
Standard equipment			
Additional internal draft shield	–	standard	standard
Additional external draft shield	–	–	standard
Front glass (coated)	–	–	standard
LevelMatic® weighing pan	–	–	–
Weighing pan diameter	16 mm	32 mm (hanging 28 mm)	45 mm (hanging 60 mm)
Free space for weighing pan	55 mm	120 mm (62 mm)	120 mm (85 mm)
Weighing pan with hooks	standard	–	–
Weights included in delivery	–	–	100 g E2-OIML
Feedthrough for below-the-balance weighing	standard	standard	standard
Allowable ambient conditions			
Temperature (°C)(±1°C)	10…30 °C	10…30 °C	10…30 °C
Max. temperature change (°C/24h)	0.5	0.5	0.5
Relative air humidity (%) (±2%)	40 – 70	40 – 70	40 – 70
Dimensions (WxDxH), net weight (kg)			
Balance	128 x 287 x 113; 2.4	241 x 433 x 289; 9.3	241 x 433 x 289; 10
Display unit	224 x 366 x 94; 2.5	–	224 x 366 x 94; 2.5
AC adapter	115 x 140 x 53; 1.2	115 x 140 x 53; 1.2	115 x 140 x 53; 1.2
Accessories			
Klimet A30	optional	optional	optional
Software MC Link	optional	optional	optional
GA42 printer	optional	optional	optional
RS-P42 printer	–	–	–

Important! The stated specifications and technical data apply only under good ambient conditions. Disruptive factors at the place of installation such as strong drafts (especially from air conditioning equipment), excessive vibrations, physical effects of the items being weighed (e.g. magnetic fields or electrostatic charges), or ambient conditions outside the allowable tolerances, may have adverse effects on the specifications.

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AX1005 Comparator	**AX1004** Comparator	**XP2004S** Comparator	**XP2003S** Comparator	**XP5003S** Comparator	**XP10003S** Comparator
0.01 mg	0.1 mg	0.1 mg	1 mg	1 mg	1 mg
1109 g	1109 g	2300 g	2300 g	5100 g	10100 g
0…109 g	0…109 g	0…2300 g	0…2300 g	0…5100 g	0…10100 g
0.02 mg	0.07 mg	0.1 mg	1 mg	0.8 mg	1 mg
± 0.12 mg	± 0.15 mg	± 1 mg	± 5 mg	± 3 mg	± 7 mg
10…20 s	10…20 s	2…10 s	2…10 s	2…10 s	2…10 s
500. 300.100.100 g	500. 300.100.100 g	–	–	–	–
at a keystroke	at a keystroke	proFACT	proFACT	proFACT	proFACT
100 g	100 g	500 g	500 g	1000 g	1000 g
± 1.5 ppm / °C	± 1.5 ppm / °C	± 10^{-6}	± 10^{-6}	± 10^{-6}	± 10^{-6}
standard	–	–	–	–	–
optional	–	–	–	–	–
Standard	optional	–	–	–	–
–	–	standard	optional	standard	standard
hanging 100 mm	hanging 100mm	130 mm	125 x125 mm	130 mm	130 mm
135 mm	135 mm	235 mm	235 mm	235 mm	350 mm
–	–	–	–	–	–
1 kg E2-OIML	1 kg F1-OIML	–	–	–	–
standard	standard	standard	standard	standard	standard
10…30 °C	10…30 °C	10…30 °C	10…30 °C	10…30 °C	10…30 °C
0.5	0.5	0.5	0.5	0.5	0.5
40 – 70	40 – 70	40 – 70	40 – 70	40 – 70	40 – 70
241 x 433 x 289; 11	241 x 433 x 289; 11	214 x 257 x 363; 7.1	214 x 257 x 363; 7.1	214 x 257 x 363; 7.1	390 x 480 x 480; 16
224 x 366 x 94; 2.5	–	194 x 133 x 58; 1.2	194 x 133 x 58; 1.2	194 x 133 x 58; 1.2	194 x 133 x 58; 1.2
115 x 140 x 53; 1.2	115 x 140 x 53; 1.2	108 x 67 x 67; 0.3	108 x 67 x 67; 0.3	108 x 67 x 67; 0.3	108 x 67 x 67; 0.3
optional	optional	optional	optional	optional	optional
optional	optional	optional	optional	optional	optional
optional	optional	–	–	–	–
–	–	optional	optional	optional	optional



Draft shield for AX1005 Comparator	
Dimensions (B x T x H mm)	342 x 514 x 350
Weight	7.5 kg

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	KA10-3/P	KA10-3	KA30-3/P	KA30-3	KA50-2/P
Readability	0.001g	0.002 g	0.002 g	0.005 g	0.005 g
Maximum load	15 kg	15 kg	30 kg	30 kg	52 kg
Electrical weighing range	0…15 kg	0…15 kg	0…30 kg	0…30 kg	0…52 kg
Repeatability	0.004 g	0.006 g	0.006 g	0.01 g	0.015 g
Linearity (electrical weighing range)	± 0.2 g	± 0.2 g	± 0.6 g	± 0.6 g	± 1 g
Stabilization time (typical)	12…15 s	12…15 s	12…15 s	12…15 s	12…15 s
Preload range	4 kg	4 kg	–	–	–
Zero setting range	0.3 kg (±)	0.3 kg (±)	0.64 kg (±)	0.64 kg (±)	1.1 kg (±)
Adjustment	with external weights in kg steps				
Calibration with external weight	1…15 kg	1…15 kg	1…30 kg	1…30 kg	1…52 kg
Sensitivity	± 2 ppm / °C	± 2 ppm / °C	± 2 ppm / °C	± 2 ppm / °C	± 2 ppm / °C
Standard equipment					
Draft shield	standard	optional	standard	optional	standard
LevelMatic® weighing pan	standard	optional	standard	optional	standard
ID7/MC terminal	must be ordered separately	must be ordered separately	must be ordered separately	must be ordered separately	must be ordered separately
Allowable ambient conditions					
Temperature (°C)(±1°C)	10 – 30 °C	10 – 30 °C	10 – 30 °C	10 – 30 °C	10 – 30 °C
Max. temperature change rate (°C/24h)	0.5	0.5	0.5	0.5	0.5
Relative air humidity (%) (±2%)	40 – 70	40 – 70	40 – 70	40 – 70	40 – 70
Dimensions (WxDxH), net weight (kg)					
Weighing platform	314 x 362 x 120; 14	280 x 350 x 117; 11	314 x 362 x 120; 14	280 x 350 x 117; 11	274 x 362 x 120; 13
Draft shield	365 x 274 x 295; 4	440 x 370 x 155; 3.7	365 x 274 x 295; 4	440 x 370 x 155; 3.7	integrated
Accessories					
Klimet A30	optional	optional	optional	optional	optional
MCLink Software	optional	optional	optional	optional	optional
Drucker GA46	optional	optional	optional	optional	optional



ID7/MC terminal

Keypad terminal with application programs for all weighing platforms, benchtop or wall model

Display:	Big weight® display – very bright, green, active VFD dot-matrix display
Key field:	Pressure-sensitive membrane keys
Interfaces:	Up to 6 RS232 connections possible (standard = 1)
Multiple connections:	Up to 3 weighing platforms simultaneously (standard = 1)
Housing:	Chrome-nickel steel, net weight 3.5 kg
Power supply connection:	100–240 V, +10/–15%, 50/60 Hz, power consumption approx. 60VA



GA46 thermoprinter

The GA46 thermoprinter gives fast, easy documentation of your weighing results

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KA50-2	KA50-2/T	KCC100-2	KC500-1	KC1000	KE2000	KE5000
0.01 g	< 12 kg: 10 mg < 22 kg: 20 mg < 52 kg: 50 mg	0.05 g	0.1 g	1 g	1 g	5 g
52 kg	52 kg	150 kg	600 kg	1200 kg	2500 kg	6000 kg
0…52 kg	0…52 kg	0…150 kg	0…600 kg	0…1200 kg	0…2500 kg	0…6000 kg
0…20 kg; 0.02 g 20…52 kg; 0.03 g	< 12 kg: 20 mg < 22 kg: 40 mg < 52 kg: 100 mg	0.15 g	0….200 kg; 0.2 g 200…600 kg; 0.3 g	0…500 kg; 2 g 500…1200 kg; 3 g	0...2000 kg: 10 g	0...5000 kg: 100g
± 1 g	± 1 g	± 2 g	± 10 g	± 20 g	± 100 g	± 300 g
12…15 s	12…15 s	12…15 s	12…15 s	12…15 s	12…15 s	12…15 s
–	–	58 kg	160 kg	80 kg	500 kg	500 kg
1.1 kg (±)	1.1 kg (±)	3 kg (±)	12 kg (±)	24 kg (±)	50 kg (+/-)	120 kg (+/-)
1…52 kg	1…52 kg	1…150 kg	1…600 kg	1…1200 kg	1…2500 kg	1…6000 kg
± 2 ppm / °C	± 2 ppm / °C	± 2 ppm / °C	± 2 ppm / °C	± 2 ppm / °C	± 2 ppm / °C	± 2 ppm / °C
standard	–	optional	optional	optional	–	–
standard	–	optional	optional	optional	–	–
must be ordered separately	must be ordered separately	must be ordered separately	must be ordered separately	must be ordered separately	must be ordered separately	must be ordered separately
10 – 30 °C	10 – 30 °C	10 – 30 °C	10 – 30 °C	10 – 30 °C	10 – 30 °C	10 – 30 °C
0.5	0.5	0.5	0.5	0.5	0.5	0.5
40 – 70	40 – 70	40 – 70	40 – 70	40 – 70	40 – 70	40 – 70
274 x 362 x 120; 13	390x580x175(case);24	800x600x130;40	1000x800x115;91	1000x800x115;91	1500x1250x182;353	1500x1250x182;353
integrated	–	optional	optional	optional	–	–
optional	optional	optional	optional	optional	optional	optional
optional	optional	optional	optional	optional	optional	optional
optional	optional	optional	optional	optional	optional	optional

LevelMatic®

By using LevelMatic pans the negative effect of cornerload errors is reduced to a minimum.




	LevelMatic A	LevelMatic 1000
Maximum load	60 kg	1200 kg
Contact diameter	130 mm	460 mm
Overall width	205 mm	699 mm
Weight	1.55 kg	23.5 kg



Draft shield (wood)	Type A	Type CC	Type C
Appropriate for	KA10-3 / KA30-3	KCC100-2	KC500-1 / KC1000
Dimensions (B x T x H mm)	440 x 370 x 155	875 x 695 x 175	1065 x 870 x 1601
Weight	3.7 kg	7.5 kg	10.4 kg

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	VC1005	P20 Pycnometer
Volume determination		
OIML weights	1 g – 1 kg	2 kg – 20 kg
Volume uncertainty (typical)	0.00015 cm^3	0.6 – 1.5 cm^3
Density uncertainty (typical)	1.2 kg / m^3	5 – 25 kg / m^3
Readability	0.01 mg	–
Taring range (subtractive)	109 g	–
Repeatability	< 0.02 mg	–
Linearity	± 0.12 mg	–
Internal switching weights	500. 300. 100. 100 g	–
Calibration	Motorized adjustment of the electrical range at a keystroke	–
Calibration with external weight	100 g	–
Sensitivity drift	± 1.5 ppm / °C	–
Standard equipment		
Weight handler	standard, 4 places	–
Maximum weight diameter	12…94 mm	–
Maximum weight height	94 mm	–
Ball diameter	< 94 mm	–
Draft shield	standard	–
4 disk weights (support for weights <20 g)	standard	–
Precision thermometer	standard	–
FLUORINERT F40 measuring fluid	standard (first filling)	–
Measuring container	–	standard
Filling system	–	standard
Measuring syringe	–	standard
Gloves	–	standard
Software	standard	standard
Allowable ambient conditions		
Temperature (°C) (±1°C)	17 – 27 °C	17 – 27 °C
Maximum temperature change (°C / 24h)	0.2	0.2
Relative air humidity (%) (± 2%)	45 – 60	45 – 60
Dimensions (WxDxH), net weight		
Comparator with weight handler	583 x 566 x 640; 60 kg	–
Display unit	224 x 366 x 94; 2.5 kg	–
AC adapter	115 x 140 x 53; 1.2 kg	–
Draft shield	700 x 700 x 700; 7 kg	–
Measuring container	–	300 x 300 x 390; 6 kg
Accessories		
KA30-3	–	optional
KA50-2/P	–	optional
KA30-3/P	–	optional
ID7/MC	–	optional

Important!

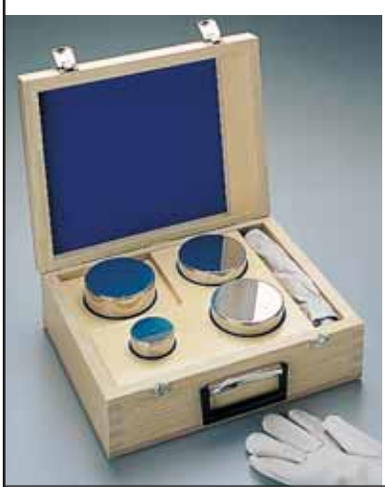
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Klimet A30 climate station



Air temperature	
Resolution	0.001 °C
Measuring range	15…25 °C
Tolerance	± 0.05 °C
Standard deviation at constant temperature	< 0.01 °C
Dewpoint	
Resolution	0.001 °C
Measuring range	0..17 °C
Tolerance	± 0.05 °C
Relative air humidity	
Calculated from air temperature and dewpoint	
Resolution	0.01%
Air pressure	
Resolution	0.001 hPa
Measuring range	600…1100 hPa
Tolerance	600…1100 hPa. ± 0.05 hPa
Dimensions (W x H x D), net weight	450 x 152 x 350 mm; 7.9 kg
Power supply connection	
Power supply voltage	choice of 200…250 V oder 100…130 V. 50…60 Hz
Power consumption	typically 3.8 VA. max:10 VA

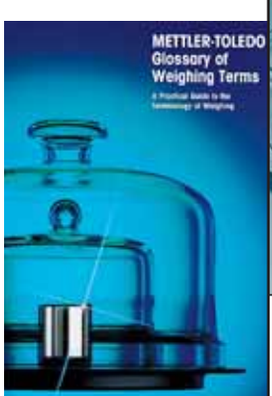


Special weight sets
Weight set for AX1006, for determination of the first weight decade 1kg to 100 g, comprising 2x200g and 1x100g disk weights. Weight set for AX10005, for determination of the first weight decade 1kg to 10 kg, comprising 1x5 kg, 2x2 kg and 1x1kg cylindrical weights.

Special weight sets	**für AX1006**		**für AX10005**	
	Nominal weight	Contents	Nominal weight	Contents
	100 g	•	1 kg	•
	200 g	••	2 kg	••
	–		5 kg	•

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We are happy to make the technical experience of our users and ours available to you:



Glossary of Weighing Terms. A Practical Guide to the Terminology of Weighing.



Fundamentals of Mass Determination

Compiled under the auspices of Prof. Dr. M. Kochsiek, Federal Institute of Physics and Technology PTB, Braunschweig and Berlin.

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