

# Basic Balances

## Toploading Balances

### Moisture Analyzer

## Analytical Balances



Moisture Analyzer



Toploading Balances



Analytical Balances



Basic Balances

# Weighing Technology

## Idea

PHOENIX INSTRUMENT GmbH starts with a new concept to comply customer demands for high-quality but also well-priced laboratory instruments.

## Implementation

Absolute customer orientation and satisfaction is the focus of all activities of PHOENIX INSTRUMENT.

## Your Benefit

As our customer you will take advantage of our long market experience, the attractive prices and the short delivery times. We guarantee comprehensive and competent consultations in all aspects and will always listen to your wishes, ideas and suggestions. It goes without saying that PHOENIX INSTRUMENT offers a technical service, if required.

## Weighing Technology

Semi-micro /  
Analytical Balances

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## AP-Series

The AP-series is the first line of semi-micro balances, equipped with the revolutionary UNIBLOC-weighing system. It guarantees brilliant stability, response and reliability characteristics. The innovative and compact construction of the weighing cell in relation with the digital process technology enables fastest weighing results and highest stability.



AP-224

### AP-Series

- automatic adjustment to environmental conditions
- huge, user-friendly weighing chamber
- RS-232 interface
- easy handling of all procedures
- direct data transfer into Windows application by Windows direct function
- various application programs (e. g. formulation, counting, %, density determination)
- weighing in different units
- weighing below the balance
- GLP/GMP-conform protocol
- user-defined printing intervals
- protection cover as standard
- backlit display (only at 0,1 mg)
- aluminum die-cast housing
- 5 years warranty
- EU verified on demand

### Three calibration procedures

- fully automatic calibration after temperature deviation
- fully automatic calibration at user-defined time intervals
- calibration per push CAL-button with built-in calibration weight

Technical data	Accuracy	Capacity	Pan size	Calibration	Measuring Time	EU verification
AP-225	0,01 mg / 0,1 mg	82 g / 220 g	80 mm	internal	3/15 sec	no
AP-225V	0,01 mg / 0,1 mg	82 g / 220 g	80 mm	internal	3/15 sec	yes
AP-125	0,01 mg / 0,1 mg	42 g / 220 g	80 mm	internal	3/12 sec	no
AP-125V	0,01 mg / 0,1 mg	42 g / 220 g	80 mm	internal	3/12 sec	yes
AP-324	0,1 mg	320 g	80 mm	internal	3 sec	no
AP-324V	0,1 mg	320 g	80 mm	internal	3 sec	yes
AP-224	0,1 mg	220 g	80 mm	internal	3 sec	no
AP-224V	0,1 mg	220 g	80 mm	internal	3 sec	yes
AP-124	0,1 mg	120 g	80 mm	internal	3 sec	no
AP-124V	0,1 mg	120 g	80 mm	internal	3 sec	yes

## ASN / ABN-Series

The ASN / ABN-Series is the all-round analytical balance for the laboratory. It guarantees brilliant stability, response and reliability characteristics. The innovative and compact construction of the weighing cell in relation with the digital process technology enables fastest weighing results and highest stability.



ASN-224

### ASN / ABN-Series

- huge, user-friendly weighing chamber
- easy handling of all procedures
- RS-232 interface
- direct data transfer into Windows application by Windows direct function
- various application programs (e. g. formulation, counting, %)
- GLP/GMP-conform protocol
- user-defined printing intervals
- aluminum die-cast housing
- protection cover as standard
- 3 years warranty
- EU verified on demand

Technical data	Accuracy	Capacity	Pan size	Calibration	Measuring Time	EU verification
ASN-224	0,1 mg	220 g	90 mm	internal	3 sec	no
ASN-224V	0,1 mg	220 g	90 mm	internal	3 sec	yes
ASN-124	0,1 mg	120 g	90 mm	internal	3 sec	no
ASN-124V	0,1 mg	120 g	90 mm	internal	3 sec	yes
ABN-224	0,1 mg	220 g	90 mm	extern	3 sec	no
ABN-124	0,1 mg	120 g	90 mm	extern	3 sec	no



## BTA-Series

The BTA-Series is equipped with the revolutionary UNIBLOC-weighing system. It guarantees brilliant stability, response and reliability characteristics. The innovative and compact construction of the weighing cell in relation with the digital process technology enables fastest weighing results and highest stability.

### BTA-Series

- automatic adjustment to environmental conditions
- easy handling of all procedures
- RS-232 interface
- weighing in different units
- weighing below the balance
- direct data transfer into Windows application by Windows direct function
- various application programs (e. g. formulation, counting, animal weighing...)
- GLP/GMP-conform protocol
- user-defined printing intervals
- aluminum die-cast housing
- protection cover as standard
- backlit display
- 5 years warranty
- EU verified on demand



BTA-6202

### Three calibration procedures

- fully automatic calibration after temperature deviation
- fully automatic calibration at user-defined time intervals
- calibration per push on the CAL-button with built-in calibration weight

Technical data	Accuracy	Capacity	Pan size	Calibration	Measuring Time	EU verification
BTA-1023	0,001 g	1020 g	108 x 105 mm	internal	3 sec	no
BTA-623	0,001 g	620 g	108 x 105 mm	internal	3 sec	no
BTA-623V	0,001 g	620 g	108 x 105 mm	internal	3 sec	yes
BTA-423	0,001 g	420 g	108 x 105 mm	internal	3 sec	no
BTA-423V	0,001 g	420 g	108 x 105 mm	internal	3 sec	yes
BTA-6202	0,01 g	6200 g	170 x 180 mm	internal	3 sec	no
BTA-6202V	0,01 g	6200 g	170 x 180 mm	internal	3 sec	yes
BTA-4202	0,01 g	4200 g	170 x 180 mm	internal	3 sec	no
BTA-4202V	0,01 g	4200 g	170 x 180 mm	internal	3 sec	yes
BTA-2202	0,01 g	2200 g	170 x 180 mm	internal	3 sec	no
BTA-2202V	0,01 g	2200 g	170 x 180 mm	internal	3 sec	yes
BTA-822	0,01 g	820 g	170 x 180 mm	internal	3 sec	no
BTA-822V	0,01 g	820 g	170 x 180 mm	internal	3 sec	yes
BTA-8201	0,1 g	8200 g	170 x 180 mm	internal	3 sec	no
BTA-4201	0,1 g	4200 g	170 x 180 mm	internal	3 sec	yes

## BTB-Series

The BTB-Series is equipped with the revolutionary UNIBLOC-weighing system which guarantees brilliant stability, response and reliability characteristics. The innovative and compact construction of the weighing cell in relation with the digital process technology enables fastest weighing results and highest stability. Calibration per push on the CAL-button with an external calibration weight.

### BTB-Series

- automatic adjustment to environmental conditions
- easy handling of all procedures
- RS-232 interface
- weighing in different units
- weighing below the balance
- direct data transfer into Windows application by Windows direct function
- various application programs (e. g. formulation, counting, %, animal weighing...)
- user-defined printing intervals
- aluminum die-cast housing
- backlit display
- 5 years warranty
- protection cover as standard



BTB - 6202

Technical data	Accuracy	Capacity	Pan size	Calibration	Measuring Time	EU verification
BTB-623	0,001 g	620 g	108 x 105 mm	extern	3 sec	no
BTB-423	0,001 g	420 g	108 x 105 mm	extern	3 sec	no
BTB-6202	0,01 g	6200 g	170 x 180 mm	extern	3 sec	no
BTB-4202	0,01 g	4200 g	170 x 180 mm	extern	3 sec	no
BTB-2202	0,01 g	2200 g	170 x 180 mm	extern	3 sec	no

## BTC-Series

The brandnew BTC-Series sets new standards with the revolutionary weighing system UNIBLOC and the state-of-the-art design.



### BTC-Series

- built-in calibration weight
- separate stability indication
- RS-232 interface
- huge weighing chamber with glass wind protection as standard
- fast and convenient handling with the new menu operating key
- direct data transfer into Windows application by Windows direct function
- various application programs (e. g. formulation, counting, %)
- new backlit display for more comfortable readings
- 5 years warranty
- EU verified on demand



BTC-423V

Technical data	Accuracy	Capacity	Pan size	Calibration	Measuring Time	EU verification
BTC-423	0,001g	420g	110mm	Internal	2 sec	No
BTC-423V	0,001g	420g	110mm	Internal	2 sec	Yes
BTC-323	0,001g	320g	110mm	Internal	2 sec	No
BTC-323V	0,001g	320g	110mm	Internal	2 sec	Yes
BTC-223	0,001g	220g	110mm	Internal	2 sec	No
BTC-223V	0,001g	220g	110mm	Internal	2 sec	Yes

## BTD-Series

The BTD-Series combines state-of-the-art design, easy handling, extensive equipment and brilliant weighing results delivered by using the revolutionary UNIBLOC-weighing system, to a unique standard balance.

### BTD - Series

- calibration per push on the CAL-button with an external calibration weight
- separate stability indication
- RS 232 interface
- huge weighing chamber with glass wind protection as standard (mg-balances)
- fast and convenient handling with the new menu operating key
- direct data transfer into Windows application by Windows direct function
- various application programs (e. g. formulation, counting, %)
- new backlit display for more comfortable readings
- 5 years warranty
- many models EU verified on demand



BTD-3202

Technical data	Accuracy	Capacity	Pan size	Calibration	Measuring Time	EU verification
BTD-423	0,001 g	420 g	110 mm	extern		no
BTD-423V	0,001 g	420 g	110 mm	extern	2 sec	yes
BTD-323	0,001 g	320 g	110 mm	extern	2 sec	no
BTD-323V	0,001 g	320 g	110 mm	extern	2 sec	yes
BTD-223	0,001 g	220 g	110 mm	extern	2 sec	no
BTD-223V	0,001 g	220 g	110 mm	extern	2 sec	yes
BTD-4202	0,01 g	4200 g	167 x 181 mm	extern	2 sec	no
BTD-4202V	0,01 g	4200 g	167 x 181 mm	extern	2 sec	yes
BTD-3202	0,01 g	3200 g	167 x 181 mm	extern	2 sec	no
BTD-3202V	0,01 g	3200 g	167 x 181 mm	extern	2 sec	yes
BTD-2202	0,01 g	2200 g	167 x 181 mm	extern	2 sec	no
BTD-2202V	0,01 g	2200 g	167 x 181 mm	extern	2 sec	yes



## BTE-Series

State-of-art-design, smart handling, extensive equipment, top prices.

### BTE-Series

- calibration per push on the CAL-button with an external calibration weight
- separate stability indication
- fast and convenient handling with the new menu operating key
- direct data transfer into Windows application by Windows direct function
- RS 232 interface
- various application programs (e. g. formulation, counting, %)
- new backlit display for more comfortable readings
- 3 years warranty



BTE-622

Technical data	Accuracy	Capacity	Pan size	Calibration	Measuring Time	EU verification
BTE-622	0,01 g	620 g	110 mm	extern	2 sec	No
BTE-6201	0,1 g	6200 g	160 mm	extern	2 sec	No
BTE-4201	0,1 g	4200 g	160 mm	extern	2 sec	No
BTE-2201	0,1 g	2200 g	160 mm	extern	2 sec	No
BTE-6200	1 g	6200 g	160 mm	extern	2 sec	No

## BTF-Series

The brandnew BTF-series offers an excellent economical alternative in the range of toploading balances with an accuracy of 0,001g to 0,01g.

### BTF-Series

- internal calibration weight (BTF-1003i, BTF6202i, BTF-3102i)
- huge, backlit display
- glass ring protection as standard at mg-balances
- convenient and easy operation
- various application programs
- RS-232-interface
- 3 years warranty



BTF-1003

Technical data	Accuracy	Capacity	Pan size	Calibration	Measuring Time	EU verification
BTF-1003	0,001 g	1000 g	110 mm	extern	3 sec	No
BTF-1003i	0,001 g	1000 g	110 mm	internal	3 sec	No
BTF-6202	0,01 g	6200 g	160 mm	extern	3 sec	No
BTF-6202i	0,01 g	6200 g	160 mm	internal	3 sec	No
BTF-3102	0,01 g	3100 g	160 mm	extern	3 sec	No
BTF-3102i	0,01 g	3100 g	160 mm	internal	3 sec	No

## BTG-Series

The brandnew BTG-series consists of multi-functional balances with a number of application programs. They are easy to handle and well-equipped. The internal rechargeable battery ensures a maximum of portability.

### BTG-Series

- large, bright display
- intuitive and easy operation, large weighing pan
- Model BTG-602 with protection housing
- Calibration weight included
- various application programs
- RS-232 interface
- 3 years warranty



BTG-303



BTG-2002



Technical data	Accuracy	Capacity	Pan size	Calibration	Measuring Time	EU verification
BTG-303	0,001 g	300 g	118 mm	extern	2-3 sec	No
BTG-2002	0,01 g	2000 g	188 x 148 mm	extern	2 sec	No
BTG-6001	0,1 g	6000 g	188 x 148 mm	extern	2 sec	No

## CA-Series

Developed, designed and manufactured to be a reliable and fast instrument under manifold - also challenging - working conditions.

### CA-Series

- calibration per push on the CAL-button with an external calibration weight
- elegante and solid ABS-housing
- balances are equipped with a draft protection (only 0,001g and 0,01g)
- stainless steel pan
- effective overload protection
- various application programs, such as counting, weighing in different units
- RS 232 interface
- balances are equipped with level indicator and adjustable feet
- can be driven with batteries
- 2 years warranty
- balances are stackable



CA-Series



CA-Series  
with Windshield

Technical data	Accuracy	Capacity	Pan size	Calibration	Measuring Time	EU verification
CA-103	0,001 g	100 g	120 mm	extern	2-3 sec	no
CA-802	0,01 g	800 g	120 mm	extern	2-3 sec	no
CA-402	0,01 g	400 g	120 mm	extern	2-3 sec	no
CA-202	0,01 g	200 g	120 mm	extern	2-3 sec	no
CA-4001	0,1 g	4000 g	145 mm	extern	2-3 sec	no
CA-2001	0,1 g	2000 g	145 mm	extern	2-3 sec	no
CA-6000	1 g	6000 g	145 mm	extern	2-3 sec	no



## CB-Series

Basic, high-performance entry model.

### CB-Serie

- calibration per push on the CAL-button with an external calibration weight
- solid ABS-housing
- balances are equipped with a draft protection (not for 0,1 g)
- stainless steel pan
- various application programs
- balances are equipped with level indicator and adjustable feet
- can be driven with batteries
- 1 year warranty
- backlit display



CB-Series

Technical data	Accuracy	Capacity	Pan size	Calibration	Measuring Time	EU verification
CB-103	0,001 g	100 g	90 mm	extern	4-5 sec	no
CB-2002	0,01 g	2000 g	130 mm	extern	2-3 sec	no
CB-602	0,01 g	600 g	130 mm	extern	2-3 sec	no
CB-202	0,01 g	200 g	130 mm	extern	2-3 sec	no
CB-3001	0,1 g	3000 g	130 mm	extern	2-3 sec	no
CB-501	0,1 g	500 g	130 mm	extern	2-3 sec	no

## Moisture Analyzer BM-60



BM-60

### BM-60

- the large, backlit graphic display for easily read out even under poor lighting conditions
- the huge sample pan allows placing even larger samples on the instrument
- infrared quartz heater provides effective and homogen drying without interference
- auto-zero function ensures high accuracy measurements
- graphic display of the drying curves
- 5 different drying modes can be combined with 2 stop-functions

#### Technical data

	BM-60
Capacity	60 g
Accuracy	0.001 g / 0,01 %
Reproducibility	0.002 g / 0,05 %
Pan size	95 mm
Measuring Memory	Gram, %Moisture, % Solids
Stabilisation time	2-3 sec
Internal Memory	10 Programs, 100 Test results
Calibration	automatic external
Heating source	400-W-Halogen heater, 50 - 160 °C
Drying programs	Standard, Drying in steps, gentle and fast huge
Display	backlit LCD-Display

## Moisture Analyzer BM-65

The newly developed moisture analyzer BM-65 is characterized by numerous features, helping the user to make working and testing with the instrument easy and convenient.



### BM-65

- large, backlit display for easy readouts
- various parameters can be displayed simultaneously
- automatic test function
- powerful 400 W halogen heater
- internal memory
- automatic test run after the lid is closed
- pan lifter makes placing and changing of probes easier
- bi-lingual menu
- 3 years warranty
- RS232 interface

### Technical data

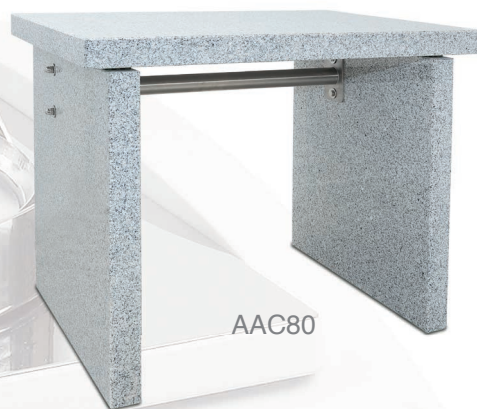
	BM-65
Capacity	65 g
Accuracy	0.001 g / 0,01 %
Reproducibility	0.002 g / 0,05 %
Pan size	90 mm
Measuring Memory	Weight, % moisture, % solids, % moisture on dry bases (ATO %S)
Stabilisation time	2-3 sec
Internal memory	Up to 99 test results or 49 programable user settings
Temp. range	50 - 160 °C in 1° steps
Heating Source	400W Halogen heater
Drying programs	a standard one step up to 3 temp steppig ramps
Display	backlit LCD-Display, 24mm size digits



### Accessories

- AAC01 Printer for all balances of the AP, ASN, ABN and BTA-BTE series
- AAC02 Same as AAC01, plus alphanumeric keypad
- AAC03 5 print ribbons, for both printer
- AAC05 10 paper rolls for both printer
  
- AAC10 Anti-static tool for all balances of the series AP, ASN, ABN and BTA-BTE
- AAC11 Rechargeable accu for all balances of the series AP, ASN, ABN and BTA-BTEE
- AAC15 Density determination kit for the AP, ASN and ABN series
- AAC16 Glass float for AAC15
- AAC18 5 protection cover for the keypad of AP series
  
- AAC30 Density determination kit for models with large pan of the BTA and BTB series
- AAC31 Density determination kit for models with small pan of the BTA and BTB series
- AAC32 Glass float for AAC30 and AAC31
- AAC36 5 protection cover for models with large pan for BTA and BTB series
- AAC37 5 protection cover for models with small pan for BTA and BTB series
- AAC38 Set for animal weighing for BTA and BTB series
  
- AAC40 5 protection cover for balances with large pan for BTD series
- AAC41 5 protection cover for the keypad of BTC- and BTD series
- AAC45 5 protection cover for balances with large pan for BTE series
- AAC46 5 protection cover for the keypad of the BTE series
  
- AAC50 Carrying case for CA-Series
- AAC51 Rechargeable accu for CA-series
- AAC60 Sample pans aluminium (500 pieces) for BM-120
- AAC63 Paper rolls (10 rolls) for AAC62
  
- AAC70 Sample pans aluminium (250 per box) for BM-65
- AAC71 Temperature calibration kit for BM-65
- AAC73 Anti-theft lock for BM-65
  
- AAC80 Weighing table made of granite, size: 900 x 600 x 750 mm

Calibration Weights  
are available on request



In addition to Balances Phoenix Instrument also offers Rotary Evaporator, Balances, Centrifuges, Stirrer, Mixer, Liquid Handling, Water baths, Incubator, Ovens, pH- and conductivity meter

