









Brief Instructions for Basic^{plus} Standard Balances and Verified Balances

Key Functions

Key	Function
	Zeros the display
	Turns the balance on and off
	Clears the stored reference value, for application programs
	Adjustment/calibration or sensitivity test, depending on the code setting
	Application programs: Tare memory, activates the counting, weighing in percent, and animal weighing programs; stores the reference value in the non-volatile memory
	Data output (print)

Simple Weighing

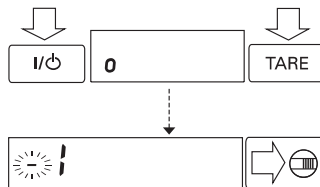
- Press  to zero the display
- Place container on pan; then press 
- Place sample on pan/add sample to container
- Wait until stability symbol “g” is displayed; then read off weight

To adapt your Basic^{plus} balance to ambient conditions and to your special requirements, please set the appropriate codes in the balance operating menu.

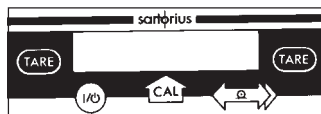
Setting a Menu Code

Turn off the balance; then turn it back on. While all segments are displayed, briefly hold down **TARE**.

Release **TARE** once "1" is displayed. If "-" is displayed next to the left-hand number, adjust the menu access switch.



Use the **CAL** key to select a menu code (increase a number by one with each press) and the **Q** key to move to the next of the three numbers (1st-2nd-3rd-1st, etc.; see diagram on the right).



Press **TARE** to confirm your selection.

To make additional code changes, press the **Q** key to return to the first digit.

Press **TARE** for more than 2 seconds to store the new menu code setting.

Adjustment/Calibration

External¹⁾ (Code 1 9 1):

Clear weighing pan

Tare

Press **CAL**:



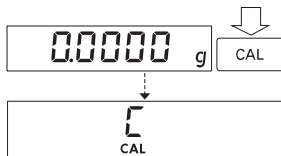
Center required weight
on pan

Internal²⁾ (Code 1 9 3):

Clear weighing pan

Tare

Press **CAL**:

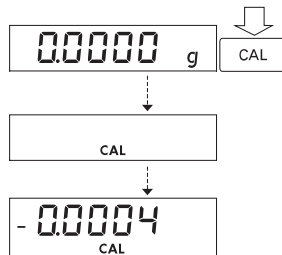


Sensitivity Test²⁾ (Code 1 9 4)

Clear weighing pan

Tare

Press **CAL**:



After the system stabilizes,
the deviation of the current
weight readout from the
target weight is displayed.

To adjust/calibrate the
balance automatically using
the built-in weight:

Press **CAL**

or

To quit the sensitivity test:

Press **CF**

¹⁾ = not applicable to verified
balances of accuracy class (II)

²⁾ = applicable to balances with
a built-in automatic calibration
function

All Menu Code Settings at a Glance

These charts summarizing the menu parameters are intended to give you a quick reference guide.

The Most Important Menu Codes for the Weighing Mode:

Ambient conditions	Code
Very stable	1 1 1*
Stable	1 1 2*
Unstable	1 1 3
Very unstable	1 1 4

Weighing-filling	Code
Standard weighing	1 2 1*
Filling	1 2 2

Stability range	Code
When the stability symbol (unit symbol) is displayed, the weight readout is stable within the range defined in digits.	
0.25 digit	1 3 1
0.5 digit	1 3 2*
1 digit	1 3 3
2 digits	1 3 4*
4 digits	1 3 5
8 digits ¹⁾	1 3 6

Tare parameter ³⁾	Code
At any time	1 5 1
After stability	1 5 2*

Auto zero function	Code
On	1 6 1*
Off	1 6 2

Adjustment/calibration and linearization functions	Code
External calibration ³⁾	1 9 1*
Internal cal. for balances w/built-in auto. cal. func.	1 9 3*
Sensitivity test for bal. w/built-in auto. cal. func.	1 9 4
External Linearization (only for the BP210D, BP300S)	1 9 5
Functions blocked	1 9 7

* = factory setting; depends on the balance model, in some cases

¹⁾ = not applicable to verified balances

Weight Units	Code
	1st level 2nd level
Grams (o)	1 7 1 3 1 1
Grams	1 7 2* 3 1 2*
Kilograms ²⁾	1 7 3* 3 1 3*
Carats ¹⁾	1 7 4 3 1 4
Pounds ¹⁾	1 7 5 3 1 5
Ounces ¹⁾	1 7 6 3 1 6
Troy ounces ¹⁾	1 7 7 3 1 7
Hong Kong taels ¹⁾	1 7 8 3 1 8
Singapore taels ¹⁾	1 7 9 3 1 9
Taiwanese taels ¹⁾	1 7 10 3 1 10
Grains ¹⁾	1 7 11 3 1 11
Pennyweights ¹⁾	1 7 12 3 1 12
Milligrams ³⁾	1 7 13 3 1 13*
Parts/pound ¹⁾	1 7 14 3 1 14
Chinese taels ¹⁾	1 7 15 3 1 15
Mommes ¹⁾	1 7 16 3 1 16
Austrian carats ¹⁾	1 7 17 3 1 17
Tola ¹⁾	1 7 18 3 1 18
Baht ¹⁾	1 7 19 3 1 19
Mesghal ¹⁾	1 7 20 3 1 20

Display Mode

	Code			
	1st level		2nd level	
Highest possible accuracy	1	8 1*	3	2 1*
Last numeral blanked when load changes	1	8 2	3	2 2
Rounding factor 2 ¹⁾	1	8 3	3	2 3
Rounding factor 5 ¹⁾	1	8 4	3	2 4
Rounding factor 10 ¹⁾	1	8 5	3	2 5

Application Programs

Program	Code
[F] key blocked	2 1 1*
Additional 2nd level	2 1 2
Counting	2 1 4
Weighing in percent	2 1 5
Tare memory	2 1 6
Animal weighing	2 1 7

Readout in percent	Code
W/o a decimal place	3 6 1
1 decimal place	3 6 2*
2 decimal places	3 6 3*
3 decimal places	3 6 4

Storage parameter for the ref. wt./value	Code
With full accuracy acc. to internal resolution	3 5 1
Acc. to display accuracy	3 5 2*
Animal weighing Delay start until...	Code
diff. is slight	3 7 1
diff. is average	3 7 2*
diff. is considerable	3 7 3

Animal weigh. start mode	Code
Manual	3 8 1
Automatic	3 8 2*

²⁾ = not applicable to verified balances
of accuracy class **I**

³⁾ = not applicable to verified balances
of accuracy class **II**

Interface

Baud rate	Code
150 baud	5 1 1
300 baud	5 1 2
600 baud	5 1 3
1,200 baud	5 1 4*
2,400 baud	5 1 5
4,800 baud	5 1 6
9,600 baud	5 1 7
19,200 baud	5 1 8

Parity	Code
Mark ¹⁾	5 2 1
Space ¹⁾	5 2 2
Odd	5 2 3*
Even	5 2 4

Number of stop bits	Code
1 stop bit	5 3 1*
2 stop bits	5 3 2

Handshake mode	Code
Software	5 4 1
Hardware, 2 char.	5 4 2*
Hardware, 1 char.	5 4 3

Utilities

Data output	Code
Regardless of stability	6 1 1
After stability	6 1 2*
At stability	6 1 3
Auto. regardless of stab.	6 1 4
Auto. at stability	6 1 5

Auto print	Code
Using the  key	6 2 1
Not stoppable	6 2 2*

Data output after...	Code
1 display update	6 3 1*
2 display updates	6 3 2

Appl. prog. parameters	Code
Off	7 1 1*
Ref. value and ref. wt.	7 1 2






Data ID codes	Code
Without	7 2 1*
With	7 2 2

Output of the tare memory data	Code
Last net value	7 3 1*
Tare memory	7 3 2

Additional Functions

Access to menu	Code ¹⁾
Accessible	8 1 1
Depends on setting of menu access switch	8 1 2*

Key functions	Code
Accessible	8 3 1*
Blocked	8 3 2

Universal switch for remote control	Code
Print 	8 4 1*
Tare 	8 4 2
Adj. or cal./lineariz. 	8 4 3
 key	8 4 4
 key	8 4 5

Power-on mode	Code
Off – on – standby	8 5 1*
On – standby	8 5 3
Auto. power-on	8 5 4

ISO/GLP-compliant

Printout/Record

Measured values, and the data of adjustment/calibration or linearization operations, along with the date, time and serial number of the particular balance are output automatically via the data interface (code 7 2 2 must also be set)

	Code
Off	8 10 1*
only for adj. or cal./lineariz. func.	8 10 2
On	8 10 3

Reset Function

This function enables you to reset all menu codes back to the original factory settings, which are identified by an " * . "

Reset function	Code
On	9 -- 1
Off	9 -- 2