



**Sartorius BS | BT series**  
Reliable results  
made easy



## Sartorius BS|BT series

### Uncompromising high standards at an affordable price

The new BS|BT series from Sartorius offers all the performance features and equipment you need for perfection in processing all standard weighing applications.

#### No less

Because you want a balance that you can depend on for all your routine laboratory tasks.

#### No more

Because we want to give you a balance that fits your budget.

The BS|BT series features a well thought-out, field-proven and user friendly design. This makes it remarkably easy to operate, for error free results. The two keys for taring, for either left- or right-handers, are prime examples of this convenient design.

#### More features for perfection

All BT semimicro-, analytical and precision balances have a built-in motorized calibration weight. This means that you obtain maximum weighing accuracy conveniently at the press of the CAL key. Plus you save time because you can immediately adjust the sensitivity of your BT without any effort.

#### More reliability

All models in the BS|BT series are made with our patented monolithic weighing system. The monolithic weigh cell is milled from a single block of a special, highly resilient aluminum alloy using the latest high-speed cutting techniques.

The monolithic weighing system technology offers unbeatable advantages for daily use:

- Excellent metrological specifications and incredibly fast response time
- High degree of reliability and long service life

#### More variety

From 0.01 mg to 4200 g, the BS|BT series provides the right choice of balance for nearly any standard laboratory application.

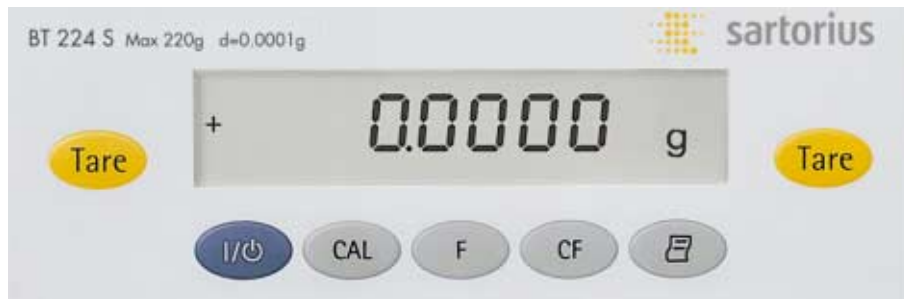
#### Overview of the standard BS|BT features

- Built-in, motorized calibration weight in all BT models
- One-touch calibration with an external weight (all BS models)
- Bidirectional RS-232 interface port
- Hanger for below-balance weighing
- Overload protection
- ISO/GLP-compliant printing capability (in combination with the YDP03-OCE printer)
- Application programs: counting; weighing in %; net total; dynamic weighing | animal weighing; mass unit conversion
- Leveling-feet, level indicator, lug for attaching an anti-theft locking device
- Electronic filters for adapting the balance to ambient conditions



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### Convenient operation; wide application range



#### More operating convenience

On the left and right sides of the display are two large tare keys clearly separated for easy access. Whether you are left- or right-handed, this 2-key configuration allows smooth operation in any weighing application.

The solidly-built mechanical contacts underneath the function keys give you clear tactile feedback at the press of a key. Moreover, the high-contrast display is easy to read.

#### More control

For controlling bidirectional communication with PCs and other devices, the built-in RS-232 serial interface port on the BS|BT is the ideal universal standard.

All data generated by the balance can be output to an optionally available, on-line printer for compliance with ISO and GLP. This means that BS|BT gives you optimal support for integrating the balance into a quality assurance system.

#### More clarity

The all-glass draft shield on the semi-micro, analytical and precision balances with 1 mg readability has been designed in the real world for laboratory use. User benefits include:

- Doors that effortlessly and quietly slide open, allowing easy access to the weighing chamber for convenient loading of a sample
- Excellent protection against drafts, ensuring the best results even in problematic environments
- Ideal design of the weighing chamber base, which has no crevices or corners, making it easy to clean thoroughly and maintain

#### More flexibility

On a BS|BT you can weigh just about anything, from really lightweight samples to heavyweight objects.

And if you want to do more than "basic weighing," the 5 application programs will let you easily perform the following:

- Net-total for accurate formulation;
- Count large quantities of parts for fast and precise results; eliminates hand-count errors;
- Weigh in % for simple and reliable measurement of residues;
- Weigh with the averaging function for fast determination of the weights of lively animals – and for weighing under extremely unstable ambient conditions; plus,
- Toggle between any two weight units for added flexibility.



Monolithic weighing system in the BT25S semi-micro balances.

Monolithic weighing system in the BS|BT analytical and precision balances.



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### Specifications and accessories

Model	Readability (mg)	Weighing capacity (g)	Pan size (mm)	Repeatability ( $\leq$ mg)	Linearity ( $\leq$ mg)	Calibration	Design
<b>Semi-microbalance</b>							
BT25S	0.01	25	Ø 80	0.02	0.03	Internal	1
<b>Analytical balances</b>							
BT224S	0.1	220	Ø 80	0.1	0.2	Internal	1
BS224S	0.1	220	Ø 80	0.1	0.2	External	1
BT124S	0.1	120	Ø 80	0.1	0.2	Internal	1
BS124S	0.1	120	Ø 80	0.1	0.2	External	1
BT214D	0.1/1	105/210	Ø 80	0.1/1	0.2/1	Internal	1
BS214D	0.1/1	105/210	Ø 80	0.1/1	0.2/1	External	1
<b>Precision balances</b>							
BT423S	1	420	Ø 115	1	2	Internal	2
BS423S	1	420	Ø 115	1	2	External	2
BT323S	1	320	Ø 115	1	2	Internal	2
BS323S	1	320	Ø 115	1	2	External	2
BT223S	1	220	Ø 115	1	2	Internal	2
BS223S	1	220	Ø 115	1	2	External	2
BT4202S	10	4200	Ø 150	10	20	Internal	3
BS4202S	10	4200	Ø 150	10	20	External	3
BT2202S	10	2200	Ø 150	10	20	Internal	3
BS2202S	10	2200	Ø 150	10	20	External	3

#### Accessories for all BS | BT models

	Order No.
Printer	YDP03-OCE
Rechargeable battery pack	YRB05Z
Remote display (reflective)	YRD02Z
RS-232C data interface cable for connection to a PC with a 25-pin COM port for connection to a PC with a 9-pin COM port	7357312 7357314
Foot switch, incl. T-connector	YFS02
Hand switch, incl. T-connector	YHS02
Test and calibration weight	Available on request



Design 1



Design 2



Design 3

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