

6 Technical data, optional equipment

6.1 Technical data

Standara equipment of B-S balances

- Protective cover, transparent, made from Borex
- AC adapter to national codes according list on page 33.
Balance power input: 8-14.5V, 50/60Hz, 6VA or 9.5-20V DC 6W
- Internal adjustment weight with AB-S models
- Internal adjustment weight with certified models AB-S, PB-S
- Built-in RS232C interface
- Draft shield with AB-S and PBxx3-S models
- All models can weigh below balance.

Materials

- Housing: die-cast aluminum, painted
- Weighing pan: 18/10 chromium-nickel steel

Protection

- Protected against dust and water
- Pollution degree: 2
- Installation category: class II
- EMC: see declaration of conformity (separate brochure 11780294)

Ambient conditions

The technical data are valid under the following ambient conditions:

- Ambient temperature 10 °C ... 30 °C
 - Relative humidity 15 % ... 80 %, noncondensing
 - Height above sea level up to 4000 m
- Operability is assured at ambient temperatures between 5 and 40 °C.

Technical data

	AB54-S	AB104-S	AB204-S	AB304-S	AB135-S DualRange	AB265-S DualRange
Readability	0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.01 mg**/0.1 mg	0.01 mg**/0.1 mg
Max. capacity	51 g	110 g	220 g	320 g	31 g**/120 g	61 g**/220 g
Repeatability (s)	0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.03 mg ^o /0.1 mg	0.05 mg ^o /0.1 mg
Linearity -/+	0.2 mg	0.2 mg	0.2 mg	0.4 mg	0.2 mg	0.2 mg
Sensitivity drift	2.5 ppm/ °C	2.5 ppm/ °C	2.5 ppm/ °C	2.5 ppm/ °C	2.5 ppm/ °C	2.5 ppm/ °C
Typical stabilization time	3.5 s	3.5 s	3.5 s	5.0 s	3 s / ≥ 12 s**	3 s / ≥ 15 s**
Adjustment weight	100 g ¹⁾	100 g ¹⁾	200 g ¹⁾	200 g ¹⁾	100 g ¹⁾	200 g ¹⁾
Adjustment weight for certified balances	¹⁾	¹⁾	¹⁾	¹⁾	¹⁾	¹⁾
External dimensions of balance (W/D/H)	245/321/344 mm					
External dimensions of packaging (W/D/H)	380/430/490 mm (0.0723 m ³)					
Weighing pan	ø 80 mm					
Max. height above weighing pan	237 mm					
Net weight (with packaging)	6.4 kg (9.1 kg)					

** Fine range values (DualRange)

¹⁾ built-in

²⁾ Optional equipment

^{o)} Fine range values to 10 g (Dual Range)

Technical data	PB153-S	PB303-S	PB303-S DeltaRange	PB403-S	PB602-S	PB1502-S	PB3002-S
Readability	0.001 g	0.001 g	0.001 g*/0.01 g	0.001 g	0.01 g	0.01 g	0.01 g
Max. capacity	151 g	310 g	60 g*/310 g	410 g	610 g	1510 g	3100 g
Repeatability (s)	0.001 g	0.001 g	0.001 g*/0.005 g	0.001 g	0.01 g	0.01 g	0.01 g
Linearity -/+	0.002 g	0.002 g	0.002 g*/0.01 g	0.002 g	0.02 g	0.02 g	0.02 g
Sensitivity drift	6 ppm/ °C	6 ppm/ °C	6 ppm/ °C	6 ppm/°C	6 ppm/ °C	6 ppm/ °C	6 ppm/ °C
Typical stabilization time	2.0 s	2.0 s	2.0 s	2.0 s	2.0 s	2.0 s	2.0 s
Adjustment weight	100 g ²⁾	200 g ²⁾	200 g ²⁾	400 g ²⁾	500 g ²⁾	1000 g ²⁾	2000 g ²⁾
Adjustment weight for certified balances	¹⁾	¹⁾	¹⁾	¹⁾	¹⁾	¹⁾	¹⁾
External dimensions of balance (W/D/H)	245/321/236 mm		245/321/89 mm				
External dimensions of packaging (W/D/H)	380/430/490 mm (0.0723 m ³)		380/430/260mm (0.0379 m ³)				
Weighing pan	ø 100 mm		ø 180 mm				
Max. height above weighing pan	141 mm						
Net weight (with packaging)	4.9 kg (6.5 kg)		3.6 kg (4.7 kg)				

* Fine range values (DeltaRange) ¹⁾ built-in ²⁾ Optional equipment

Technical data

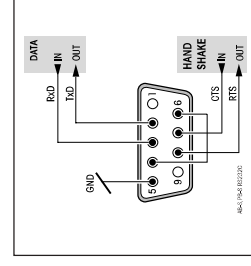
	PB3002-S	PB4002-S	PB1501-S	PB3001-S	PB5001-S	PB8001-S	PB8000-S
	DeltaRange						
Readability	0.01 g*/0.1 g	0.01 g	0.1 g	0.1 g	0.1 g	0.1 g	1 g
Max. capacity	600 g*/3100 g	4100 g	1510 g	3100 g	5100 g	8100 g	8100 g
Repeatability (s)	0.01 g*/0.05 g	0.01 g	0.05 g	0.05 g	0.05 g	0.05 g	0.5 g
Linearity -/+	0.02 g*/0.1 g	0.02 g	0.1 g	0.1 g	0.1 g	0.1 g	0.5 g
Sensitivity drift	6 ppm/ °C	6 ppm/ °C	10 ppm/ °C	10 ppm/ °C	10 ppm/ °C	10 ppm/ °C	10 ppm/ °C
Typical stabilization time	2.0 s	2.0 s	1.5 s	1.5 s	1.5 s	1.5 s	1.0 s
Adjustment weight	2000 g ²⁾	2000 g ²⁾	1000 g ²⁾	2000 g ²⁾	2000 g ²⁾	4000 g ²⁾	4000 g ²⁾
Adjustment weight for certified balances	¹⁾	¹⁾	¹⁾	¹⁾	¹⁾	¹⁾	¹⁾
External dimensions of balance (W/D/H)	245/321/89 mm						
External dimensions of packaging (W/D/H)	380/430/260 mm (0.0379 m ³)						
Weighing pan	∅ 180 mm						
Net weight (with packaging)	3.6 kg (4.7 kg)						

* Fine range values (DeltaRange) ¹⁾ built-in ²⁾ Optional equipment

6.2 Interface

RS232C interface and interface accessories

Every B-S balance is fitted with an RS232C interface for attachment to a peripheral device (e.g. printer or PC with a 9-pin male connector). Matching to a different device can be carried out in the menu (Sections 4.3.10 – 4.3.15).



You will find a detailed description of the available interface commands in the brochure "Reference Manual MT-SICS Basic-S balances 11780447" available from your METTLER TOLEDO dealer or download from the Internet (www.mt.com/AB-S).

The wide range of features of the B-S balances regarding documentation of the results can not be exploited to the full until a printer, e.g. the GA42 or LC-P45 from METTLER TOLEDO is attached. The printed results make a decisive contribution to a simple way of working in compliance with GLP/GMP.