

6 Technical data, optional equipment

6.1 Technical data

Standard equipment of B-S/FACT balances

- Protective cover, transparent, made from Barex
- AC adapter to national codes according list on section 6.4
Balance power input: 8–14.5 VAC, 50/60Hz,
6 VA or 9.5–20 VDC, 6 W
- FACT, fully automatic adjustment with internal weight
- Built-in RS232C interface
- Draft shield with AB-S/FACT and PBxx3-S/FACT models
- All models can weigh below balance.
- Display with backlight (except ABxx5-S/FACT).

Materials

- Housing: die-cast aluminum, painted
- Weighing pan:
Chromium-nickel steel, X2CrNiMo 17 13 2 (1.4404)

Protection

- Protected against dust and water
- Pollution degree: 2
- Overvoltage 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 % at 31 °C,
linear decreasing to
50% at 40 °C
noncondensing

Operability is assured at ambient temperatures between 5 and 40 °C.

Technical data	AB54-S/FACT	AB104-S/FACT	AB204-S/FACT	AB304-S/FACT	AB135-S/FACT DualRange	AB265-S/FACT 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 (sd)	0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.03 mg ^o /0.1 mg	0.03 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 temperature drift (10 °C ... 30 °C)	2.5 ppm/ °C	2.5 ppm/ °C	2.5 ppm/ °C	2.5 ppm/ °C	2.5 ppm/ °C	2.5 ppm/ °C
Settling time, typical	3.5 s	3.5 s	4 s	5 s	4 s / 15 s**	4 s / 15 s**
Adjustment weight	built-in	built-in	built-in	built-in	built-in	built-in
Backlight	yes	yes	yes	yes	no	no
External dimensions of balance (W/D/H)	245x321x344 mm	245x321x344 mm	245x321x344 mm	245x321x344 mm	245x321x344 mm	245x321x344 mm
External dimensions of packaging (W/D/H)	381x436x495 mm (0.082 m ³)	381x436x495 mm (0.082 m ³)	419x494x521 mm (0.108 m ³)	381x436x495 mm (0.082 m ³)	419x494x521 mm (0.108 m ³)	419x494x521 mm (0.108 m ³)
Weighing pan	ø 80 mm	ø 80 mm	ø 80 mm	ø 80 mm	ø 80 mm	ø 80 mm
Usable height of draft shield	237 mm	237 mm	237 mm	237 mm	237 mm	237 mm
Net weight (with packaging)	5.8 kg (7.8 kg)	5.8 kg (7.8 kg)	6.4 kg (9.1 kg)	5.8 kg (7.8 kg)	6.4 kg (9.1 kg)	6.4 kg (9.1 kg)

** Fine range(DualRange)

^o) Fine range up to 10 g (Dual Range)

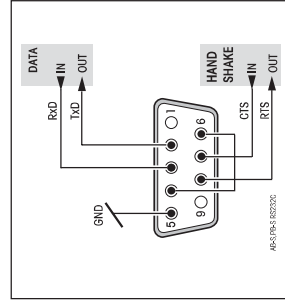
Technical data	PB153-S/FACT	PB303-S/FACT	PB303-SDR/FACT DeltaRange	PB403-S/FACT	PB503-S/FACT	PB602-S/FACT	PB1502-S/FACT	PB3002-S/FACT
Readability	0.001 g	0.001 g	0.001 g*/0.01 g	0.001 g	0.001 g	0.01 g	0.01 g	0.01 g
Max. capacity	151 g	310 g	60 g*/310 g	410 g	510 g	610 g	1510 g	3100 g
Repeatability (sd)	0.001 g	0.001 g	0.001 g*/0.008 g	0.001 g	0.001 g	0.01 g	0.01 g	0.01 g
Linearity	0.002 g	0.002 g	0.01 g	0.002 g	0.002 g	0.02 g	0.02 g	0.02 g
Sensitivity temperature drift (10 °C ... 30 °C)	6 ppm/ °C	6 ppm/ °C	6 ppm/ °C	6 ppm/°C	6 ppm/°C	6 ppm/ °C	6 ppm/ °C	6 ppm/ °C
Settling time, typical	2 s	2 s	2 s	2 s	3 s	2 s	2 s	2 s
Adjustment weight	built-in	built-in	built-in	built-in	built-in	built-in	built-in	built-in
Backlight	yes	yes	yes	yes	yes	yes	yes	yes
External dimensions of balance (W/D/H)	245x321x280 mm							
External dimensions of packaging (W/D/H)	381x436x495 mm (0.082 m ³)	381x436x273 mm (0.045 m ³)						
Weighing pan	∅ 100 mm	∅ 180 mm						
Usable height of draft shield	165 mm	—						
Net weight (with packaging)	4.9 kg (6.5 kg)	3.6 kg (4.7 kg)						

* Fine range (DeltaRange)

Technical data	PB3002-SDR/FACT DeltaRange	PB4002-S/FACT	PB1501-S/FACT	PB3001-S/FACT	PB5001-S/FACT	PB8001-S/FACT	PB8000-S/FACT
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 (sd)	0.01 g*/0.08 g	0.01 g	0.08 g	0.08 g	0.08 g	0.08 g	0.8 g
Linearity	0.1 g	0.02 g	0.1 g	0.1 g	0.1 g	0.1 g	1 g
Sensitivity temperature drift (10 °C ... 30 °C)	6 ppm/ °C	6 ppm/ °C	10 ppm/ °C	10 ppm/ °C	10 ppm/ °C	10 ppm/ °C	10 ppm/ °C
Settling time, typical	2 s	2 s	1.5 s	1.5 s	1.5 s	2 s	1 s
Adjustment weight	built-in	built-in	built-in	built-in	built-in	built-in	built-in
Backlight	yes	yes	yes	yes	yes	yes	yes
External dimensions of balance (W/D/H)	245x321x89 mm		245x321x89 mm				
External dimensions of packaging (W/D/H)	381x436x273 mm (0.045 m ³)		381x436x273 mm (0.045 m ³)				
Weighing pan	∅ 180 mm		180 x 180 mm				
Net weight (with packaging)	3.6 kg (4.7 kg)		3.6 kg (4.7 kg)				

* Fine range (DeltaRange)

6.2 Interface



RS232C interface and interface accessories

Every B-S/FACT 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 4.3.12 – 4.3.17).

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/sics-classic).

The wide range of features of the B-S/FACT balances regarding documentation of the results can not be exploited to the full until a printer, e.g. the RS-P26 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.