

# XPR Precision Balances

## Accurate, Flexible, Compliant



### Outstanding Performance

The SmartPan™ weighing pan minimizes the effects of air currents on the weighing cell to deliver faster and more accurate results. In most conditions a draft shield is no longer needed, significantly reducing process steps.



### Efficient Processes

Customizable, integrated weighing methods guide you through each weighing process, saving time and providing higher process security. The built-in notepad automatically records all task parameters and results, eliminating manual transcription.



### Effortless Compliance

QA functions automatically monitor the balance level, routine tests and the minimum weight limit. The integrated StatusLight™ makes it easy to see at a glance if it's okay to start your weighing task. Compliance management has never been this easy.



### Error-free Data Handling

Data transfer to a PC or software program is easy and error-free via USB or Ethernet. Integrated LabX functionalities assist you in ensuring data integrity. Just plug in a printer and barcode reader to eliminate manual transcription entirely.



## XPR Precision Balance Solutions Go Beyond Weighing

XPR small platform precision balances deliver outstanding weighing performance and support the highest requirements for data integrity and compliance.

Thanks to the extraordinary stability provided by the unique SmartPan weighing pan, results are delivered up to twice as fast even under tough weighing environments. Repeatability is improved up to two-fold.

The state-of-the-art user interface offers intelligent functions to simplify and support your processes at every step. With smart quality assurance features automatically monitoring the status of your balance, you can rest assured that your results are valid.



**SmartPan models**

SmartPan weighing pans minimize the effects of air drafts on the weighing cell significantly improving stability and measurement accuracy.



**LevelMatic models**

<sup>1</sup> The LevelMatic weighing pan minimizes corner load effects enabling you to weigh with an extreme level of accuracy.



	<b>XPR204S</b>	<b>XPR404S</b>	<b>XPR504SDR</b>
Material number	30315631	30315628	30315239
<b>Limit values</b>			
Maximum capacity (full range/fine range)	210 g	410 g	510 g / 101 g
Readability (full range/fine range)	0.1 mg	0.1 mg	1 mg / 0.1 mg
Repeatability (full range/fine range)	0.2 mg	0.1 mg	0.5 mg / 0.1 mg
Linearity deviation	0.2 mg	0.2 mg	0.4 mg
<b>Typical values</b>			
Repeatability (full range/fine range)	0.12 mg	0.06 mg	0.4 mg / 0.08 mg
Linearity deviation	0.06 mg	0.06 mg	0.2 mg
Sensitivity offset (test weight)	0.4 mg (200 g)	0.48 mg (400 g)	0.3 mg (500 g)
Minimum weight (5% load, k=2, U=1.0%)	24 mg	12 mg	16 mg
USP minimum weight (5% load, k=2, U=0.10%)	240 mg	120 mg	160 mg
Settling time	2 s	2 s	2 s
<b>Dimensions</b>			
Weighing pan size (mm)	Ø 68	Ø 68	Ø 68
Weighing pan	SmartPan	SmartPan	SmartPan
Draft shield	Pro draft shield	Pro draft shield	Pro draft shield



	<b>XPR504S</b>	<b>XPR2004SC<sup>1</sup></b>
Material number	30315652	30317628
<b>Limit values</b>		
Maximum capacity	510 g	2.3 kg
Readability	0.1 mg	0.1 mg
Repeatability	0.1 mg	0.6 mg
Linearity deviation	0.3 mg	1 mg
<b>Typical values</b>		
Repeatability	0.07 mg	0.3 mg
Linearity deviation	0.2 mg	0.5 mg
Sensitivity offset (test weight)	0.3 mg (500 g)	6.8 mg (2 kg)
Minimum weight (5% load, k=2, U=1.0%)	14 mg	60 mg
USP minimum weight (5% load, k=2, U=0.10%)	140 mg	600 mg
Settling time	2 s	3.5 s
<b>Dimensions</b>		
Weighing pan size (mm)	Ø 68	Ø 130
Weighing pan	SmartPan	LevelMatic
Draft shield	Pro draft shield	Pro draft shield



	<b>XPR303SN<sup>2</sup></b>	<b>XPR303S</b>	<b>XPR603SNDR<sup>2</sup></b>
Material number	30316446	30315753	30316529
<b>Limit values</b>			
Maximum capacity (full range/fine range)	310 g	310 g	610 g / 120 g
Readability (full range/fine range)	1 mg	1 mg	10 mg / 1 mg
Repeatability (full range/fine range)	0.9 mg	0.9 mg	6 mg / 1 mg
Linearity deviation	2 mg	2 mg	6 mg
<b>Typical values</b>			
Repeatability (full range/fine range)	0.5 mg	0.5 mg	4 mg / 0.8 mg
Linearity deviation	0.6 mg	0.6 mg	1.5 mg
Sensitivity offset (test weight)	1.2 mg (300 g)	1.2 mg (300 g)	6 mg (600 g)
Minimum weight (5% load, k=2, U=1.0%)	100 mg	100 mg	160 mg
USP minimum weight (5% load, k=2, U=0.10%)	1 g	1 g	1.6 g
Settling time	1.5 s	1.5 s	1.5 s
<b>Dimensions</b>			
Weighing pan size (mm)	127 x 127	127 x 127	127 x 127
Weighing pan	SmartPan	Standard pan SmartPan	SmartPan
Draft shield	Optional	Pro draft shield	Optional

<sup>2</sup> Supplied without draft shield (available as an accessory)



	<b>XPR603SDR</b>	<b>XPR603SN<sup>2</sup></b>	<b>XPR603S</b>
Material number	30316525	30316540	30316504
<b>Limit values</b>			
Maximum capacity (full range/fine range)	610 g / 120 g	610 g	610 g
Readability (full range/fine range)	10 mg / 1 mg	1 mg	1 mg
Repeatability (full range/fine range)	6 mg / 1 mg	0.9 mg	0.9 mg
Linearity deviation	6 mg	2 mg	2 mg
<b>Typical values</b>			
Repeatability (full range/fine range)	4 mg / 0.8 mg	0.5 mg	0.5 mg
Linearity deviation	1.5 mg	0.6 mg	0.6 mg
Sensitivity offset (test weight)	6 mg (600 g)	1.2 mg (600 g)	1.2 mg (600 g)
Minimum weight (5% load, k=2, U=1.0%)	160 mg	100 mg	100 mg
USP minimum weight (5% load, k=2, U=0.10%)	1.6 g	1 g	1 g
Settling time	1.5 s	1.5 s	1.5 s
<b>Dimensions</b>			
Weighing pan size (mm)	127 x 127	127 x 127	127 x 127
Weighing pan	Standard pan, SmartPan	SmartPan,	Standard pan, SmartPan
Draft shield	Pro draft shield	Optional	Pro draft shield

<sup>2</sup> Supplied without draft shield (available as an accessory)



	<b>XPR1203S</b>	<b>XPR3003S</b>	<b>XPR5003S</b>
Material number	30316563	30316701	30316990
<b>Limit values</b>			
Maximum capacity	1210 g	3.1 kg	5.1 kg
Readability	1 mg	1 mg	1 mg
Repeatability	0.8 mg	1 mg	1.5 mg
Linearity deviation	2 mg	6 mg	6 mg
<b>Typical values</b>			
Repeatability	0.4 mg	0.6 mg	1 mg
Linearity deviation	0.6 mg	2 mg	2 mg
Sensitivity offset (test weight)	1.5 mg (1.2 kg)	1.8 mg (3 kg)	3 mg (5 kg)
Minimum weight (5% load, k=2, U=1.0%)	82 mg	120 mg	200 mg
USP minimum weight (5% load, k=2, U=0.10%)	820 mg	1.2 g	2 g
Settling time	1.5 s	2 s	2 s
<b>Dimensions</b>			
Weighing pan size (mm)	127 x 127	127 x 127	127 x 127
Weighing pan	Standard pan, SmartPan	Standard pan, SmartPan	Standard pan, SmartPan
Draft shield	Pro draft shield	Pro draft shield	Pro draft shield



	<b>XPR10003SC<sup>1</sup></b>	<b>XPR3003SD5</b>	<b>XPR6003SD5</b>
Material number	30317641	30316705	30316548
<b>Limit values</b>			
Maximum capacity	10.1 kg	3.1 kg	6.1 kg
Readability	1 mg	5 mg	5 mg
Repeatability	3.5 mg	6 mg	6 mg
Linearity deviation	7 mg	6 mg	7 mg
<b>Typical values</b>			
Repeatability	2 mg	3 mg	3 mg
Linearity deviation	3.2 mg	2 mg	2 mg
Sensitivity offset (test weight)	34 mg (10 kg)	4 mg (3 kg)	5 mg (6 kg)
Minimum weight (5% load, k=2, U=1.0%)	400 mg	600 mg	600 mg
USP minimum weight (5% load, k=2, U=0.10%)	4 g	6 g	6 g
Settling time	3.5 s	2 s	2 s
<b>Dimensions</b>			
Weighing pan size (mm)	∅ 130	172 x 205	172 x 205
Weighing pan	LevelMatic	Standard pan SmartPan	Standard pan SmartPan
Draft shield	Draft Shield W12	Optional	Optional



	<b>XPR1202S</b>	<b>XPR2002S</b>	<b>XPR4002S</b>
Material number	30317123	30316996	30317269
<b>Limit values</b>			
Maximum capacity	1210 g	2.1 kg	4.1 kg
Readability	0.01 g	0.01 g	0.01 g
Repeatability	8 mg	8 mg	8 mg
Linearity deviation	20 mg	20 mg	20 mg
<b>Typical values</b>			
Repeatability	4 mg	4 mg	4 mg
Linearity deviation	6 mg	6 mg	6 mg
Sensitivity offset (test weight)	15 mg (1.2 kg)	25 mg (2 kg)	25 mg (4 kg)
Minimum weight (5% load, k=2, U=1.0%)	820 mg	820 mg	820 mg
USP minimum weight (5% load, k=2, U=0.10%)	8.2 g	8.2 g	8.2 g
Settling time	1.2 s	1.2 s	1.2 s
<b>Dimensions</b>			
Weighing pan size (mm)	172 x 205	172 x 205	172 x 205
Weighing pan	Standard pan SmartPan	Standard pan SmartPan	Standard pan SmartPan
Draft shield	Optional	Optional	Optional



	<b>XPR6002SDR</b>	<b>XPR6002S</b>	<b>XPR8002S</b>	<b>XPR10002S</b>
Material number	30317458	30317428	30317466	30317433
<b>Limit values</b>				
Maximum capacity (full range/fine range)	6.1 kg / 1.2 kg	6.1 kg	8.1 kg	10.1 kg
Readability (full range/fine range)	0.1 g / 0.01 g	0.01 g	0.01 g	0.01 g
Repeatability (full range/fine range)	60 mg / 8 mg	8 mg	8 mg	8 mg
Linearity deviation	60 mg	20 mg	20 mg	20 mg
<b>Typical values</b>				
Repeatability (full range/fine range)	40 mg / 5 mg	4 mg	4 mg	4 mg
Linearity deviation	20 mg	6 mg	6 mg	6 mg
Sensitivity offset (test weight)	30 mg (6 kg)	12 mg (6 kg)	12 mg (8 kg)	12 mg (10 kg)
Minimum weight (5% load, k=2, U=1.0%)	1 g	820 mg	820 mg	820 mg
USP minimum weight (5% load, k=2, U=0.10%)	10 g	8.2 g	8.2 g	8.2 g
Settling time	1.2 s	1.2 s	1.5 s	1.5 s
<b>Dimensions</b>				
Weighing pan size (mm)	172 x 205	172 x 205	172 x 205	172 x 205
Weighing pan	Standard pan SmartPan	Standard pan SmartPan	Standard pan SmartPan	Standard pan SmartPan
Draft shield	Optional	Optional	Optional	Optional



	<b>XPR4001S</b>	<b>XPR6001S</b>	<b>XPR8001S</b>	<b>XPR10001S</b>
Material number	30317447	30317491	30317511	30317483
<b>Limit values</b>				
Maximum capacity	4.1 kg	6.1 kg	8.1 kg	10.1 kg
Readability	0.1 g	0.1 g	0.1 g	0.1 g
Repeatability	80 mg	80 mg	80 mg	80 mg
Linearity deviation	60 mg	60 mg	100 mg	100 mg
<b>Typical values</b>				
Repeatability	40 mg	40 mg	40 mg	40 mg
Linearity deviation	20 mg	20 mg	30 mg	30 mg
Sensitivity offset (test weight)	50 mg (4 kg)	50 mg (6 kg)	120 mg (8 kg)	120 mg (10 kg)
Minimum weight (5% load, k=2, U=1.0%)	8.2 g	8.2 g	8.2 g	8.2 g
USP minimum weight (5% load, k=2, U=0.10%)	82 g	82 g	82 g	82 g
Settling time	0.8 s	0.8 s	1 s	1 s
<b>Dimensions</b>				
Weighing pan size (mm)	190 x 223	190 x 223	190 x 223	190 x 223
Weighing pan	Standard pan	Standard pan	Standard pan	Standard pan
Draft shield	Optional	Optional	Optional	Optional

## Features

### Outstanding Performance

- Max capacity from 200 g to 10 kg
- Readability from 0.1 mg to 0.1 g
- High performance models from 2 kg (0.1 mg) to 10 kg (1 mg)
- SmartPan and LevelMatic weighing pans

### Quality Assurance

- GWP Approved built-in quality assurance monitoring
- Customizable tolerance profiles
- MinWeigh warning function
- Adjustment and routine test history
- Balance ready StatusLight™
- LevelControl: level warning with graphical leveling guide
- Temperature and time programmable automatic adjustment (proFACT)
- User Management, individual profiles password protected
- Change history log

### Efficient Operation

- 7 inch color capacitive touchscreen terminal, glove compatible
- Storage of weighing methods (including sample series and tolerances)
- Integrated results notepad

### Seamless Process

- Easy connectivity and data export: 4 x USB, 1 LAN
- Easy connection of peripheral devices: printers, PC, barcode readers, footswitches and sensors
- Integrated label editor, alphanumeric and barcode
- Export of process and results data to XML or Excel

### Sustainable Value

- Integrated overload protection
- Chemically resistant materials
- Designed for easy cleaning

## LabX Laboratory Software

Connect your balance to LabX software to benefit from a fully integrated solution which can satisfy all your data handling needs.

- SOP user guidance on the instrument
- Automatic data handling and calculations
- Easy data access and documentation
- Full process and results traceability
- Centralized management of multiple instruments



## Selected Accessories



### Printers

The P-50 family of printers generate fast, high-quality printouts on paper, continuous label and individual labels with IDs and barcodes.



### Barcode Reader

Read in sample and user IDs quickly and without error with a handheld barcode reader.



### Terminal Stand

Place your terminal on a stand which is quickly mounted at the back of your balance. The display is easier to read and good posture is maintained.



### Hand/foot Switches

Keep your hands free to handle your sample and equipment: use a remote switch to perform selected balance operations.



### Protective Covers

Disposable terminal and platform covers protect your balance and help avoid cross-contamination. A dust cover shields your balance against soiling.



### Antistatic Kit

Eliminate electrostatic charges on samples and containers by passing them through the free-standing ionizer.

## Accessory Material Numbers

Universal antistatic kit	11107767
USB Antistatic kit	30215452
P-52 RUE dot matrix printer; RS232, USB, Ethernet, optional BT	30237290
P-56 RUE thermal direct printer; RS232, USB, Ethernet, optional BT	30094673
P-58 RUE thermal direct printer; RS232, USB, Ethernet, optional BT	30094674
USB barcode reader	30417466
Terminal stand for S-platform balances	30125077
Bluetooth adapter, connects via USB	30416089
ErgoSens: infrared sensor for touch-free remote operation (USB connection)	30300915
Footswitch: switch for remote operation (USB connection)	30312558
Protective cover for S-platform balances: 5 mg, 10 mg, 0.1 g	30215056
Protective cover for S-platform balances: 0.1 mg, 1 mg	30300967
Protective cover for XPR terminal	30125377
Protective cover for standard weighing pan, S-platform: 5 mg, 10 mg (172 x 205mm)	30106207
Protective cover for standard weighing pan, S-platform: 0.1 g (190 x 223 mm)	30106204
USB-RS232 converter: connects peripheral devices to the balance via RS232	64088427
Terminal extension cable: length 4.5 m	30300920



CarePac® certified weight sets for routine testing

► [www.mt.com/carepacs](http://www.mt.com/carepacs)

[www.mt.com/xpr-precision](http://www.mt.com/xpr-precision)

For more information

### METTLER TOLEDO Group

Laboratory Weighing

Local contact: [www.mt.com/contacts](http://www.mt.com/contacts)

Subject to technical changes

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