



Laboratory Weighing

LABORATORY BALANCES SELECTOR GUIDE

Laboratory Balances
– applications & features

		Semi-Micro, Analytical & Precision										Precision Portable					
		EX 5(d)	EX	EX HC	AX 5(d)	AX	AX HC	PX 5(d)	PX	PX HC	PR	STX	SKX	NV / NVT	CX	CR	YA
Applications	Weighing	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Parts Counting	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Percentage Weighing	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Below Balance Weighing	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Custom unit - Factor entry	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Checkweighing	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Dynamic/Animal Weighing	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Gross/Net/Tare	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Totalization	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Statistics	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Differential Weighing	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Filling	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Density Determination	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Pipette Adjustment	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Display Hold	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Formulation	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Ingredients Costing	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	SQC	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Fill Weight Variation	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	High Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Mole weighing	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
User management	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
System log	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Operation	Mains Operation	•	•	•	•	•	•	•	•	•	•	•	•	•	•*	•*	•
	Battery Operation	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Rechargeable battery	•	•	•*	•	•	•	•	•	•	•	•	•	•*	•	•	•
Display	LCD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Backlit LCD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Backlit 2-lines LCD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Full colour VGA touch display	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Output	Multilingual	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	RS232	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	USB	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Ethernet	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Bluetooth	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Other	GLP Time/Date	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Auto Door	•*	•*	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Ionizer	•*	•*	•	•*	•*	•*	•*	•*	•*	•*	•*	•*	•*	•*	•*	•*
	Internal Calibration	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Advanced AutoCal™	•	•*	•	•	•*	•	•	•	•	•	•	•	•	•	•	•
	EC Type Approval	•*	•*	•*	•*	•*	•*	•*	•*	•*	•*	•*	•*	•*	•*	•*	•*
	Print-to-USB drive	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
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• standard •* on specific models • option •* accessory To follow regulations, some applications may not be available on EC Type approved Models

WHAT IS IN A MODEL NUMBER?

Semi-Micro, Analytical and Precision Balances



EX225D/AD = Explorer 220 g, 5 places (Semi-Micro), dual range, automatic door model			
EX	–	2	2
Family	Capacity (1 kg)	Capacity (100 g)	Capacity (10 g)
EX = Explorer	None = less than 1 kg	None / 0 = less than 100 g	None / 0 = less than 10 g
AX = Adventurer	1 = 1 kg	1 = 100 g	1 = 10 g
PX = Pioneer	2 = 2 kg	2 = 200 g	2 = 20 g
PR = PR Series	4 = 4 kg	3 = 300 g	8 = 80 g
	6 = 6 kg	4 = 400 g	
	8 = 8 kg	5 = 500 g	
	10 = 10 kg	6 = 600 g	
	12 = 12 kg	8 = 800 g	
	24 = 24 kg		
	35 = 35 kg		
5	D	–	/AD
Readability	Dual range	Approval	/
1 = 1 place (Precision)	None = Single Range	None = non legal for trade models	None = standard model
2 = 2 places (Precision)	D = Dual Range	M = legal for trade models	/AD = Automatic Door Model
3 = 3 places (Precision)			/E = External Calibration Model
4 = 4 places (Analytical)			
5 = 5 places (Semi-Micro)			

EXPLORER™ Semi-Micro

Built for sophisticated, professional weighing



Application

Weighing, percent weighing, parts counting, check weighing, dynamic/animal weighing, filling, totalization, formulation, fill weight variation, differential weighing, density determination, peak hold, pipette adjustment, SQC

Display

Full-colour VGA graphic display (diagonal 5.7"/145mm), detachable, 4-wire resistive touch screen. QWERTY keyboard and numeric keypad to quickly input GLP and GMP data and other application data

Operation

AC Adapter (included)

Communication

Easy access communication ports including 2 units of USB port, RS232 and an optional 4th Ethernet port, GLP/GMP data output with real time clock, Direct Data Transfer, print to USB drive

Construction

Metal base, ABS top housing, stainless steel pan, anti-static glass draftshield with flip-top door, replaceable in-use cover, automatic doors on specific models

Design Features

AutoCal™ fully-automatic internal adjustment system equipped with 2 internal adjustment weights, routine test and minimum weight determination, fast stabilization time, four touchless sensors, built-in ionizer with automatic doors models, up to 14 operating languages, approved models available, save to USB function, menu lock switch, security bracket, integral weigh below hook for below balance weighing applications, removable stainless steel weighing platform, stability indicator, overload and underload indicators, auto standby



Explorer's weighing cells precision-machined from a solid metal block, together with AutoCal™ provides exceptional accuracy and durability suitable for laboratory and industrial environments.

Features such as four-level user management with password protection, and un-editable system log plus a high level of configurability make Explorer balances well suited for regulated applications.

A detachable terminal with a large colour touchscreen, programmable IR sensors, optional built-in ionizer & automatic doors, and a frameless draftshield make Explorer balances easy & convenient to use.

Model	EC Type Approved	Auto Door	Ionizer	Capacity	Readability (d)	(e)	Platform	Cal. weight, class	Item N°
EX125D				52g/120g	0,01mg/ 0,1mg		Ø 80mm	100g, E2	30218998
EX125				120g	0,01mg		Ø 80mm	100g, E2	30218999
EX225D				120g/220g	0,01mg/ 0,1mg		Ø 80mm	200g, E2	30219000
EX225D/AD		•	•	120g/220g	0,01mg/ 0,1mg		Ø 80mm	200g, E2	30219001
EX225/AD		•	•	220g	0,01mg		Ø 80mm	200g, E2	30219002
EX125DM	•			52g/120g	0,01mg/ 0,1mg	1mg	Ø 80mm	100g, E2	30139515
EX125M	•			120g	0,01mg	1mg	Ø 80mm	100g, E2	30139516
EX225DM	•			120g/220g	0,01mg/ 0,1mg	1mg	Ø 80mm	200g, E2	30139517
EX225DM/AD	•	•	•	120g/220g	0,01mg/ 0,1mg	1mg	Ø 80mm	200g, E2	30139518
EX225M/AD	•	•	•	220g	0,01mg	1mg	Ø 80mm	200g, E2	30139519

ADVENTURER™ Semi-Micro

Intuitive Balances Designed for Routine Weighing



EASY OPERATION & TIME SAVING **NEW**

Application

Weighing (17 units + custom unit), parts counting, percentage weighing, check weighing, animal/dynamic weighing, totalization/statistics, formulation, density determination, display hold, batch printing

Display

4.3" (109 mm) Full-colour VGA graphic touchscreen with user-controlled brightness, 6 mechanical buttons

Operation

AC adapter (included)

Communication

RS232, USB Host, USB Device (included), GLP/GMP compliant data output with real-time clock

Construction

Metal base, ABS top housing, stainless steel pan, glass draftshield with two piece top mounted side doors and sliding top door (1mg models only), illuminated up-front level indicator, integral weigh below hook, security bracket, adjustment lock, full housing replaceable in-use cover

Design Features

Selectable environmental filters, auto tare, user-selectable span adjustment points, software lockout and reset menu, user-selectable communication settings and data print options, user definable project and user IDs, up to 9 operating languages



Adventurer balances feature a color touchscreen, icon-based user interface, and an ergonomic design – making them easy to configure and use.

Features such as specialized weighing modes, multiple connectivity options, and AutoCal™ provide versatility and flexibility for a variety of applications.

Durable construction, large weighing surfaces, a space-saving draftshield design, and full housing in-use cover allow for use in lab, education and industrial environments.

Model	EC Type Approved	Capacity	Readability (d)	(e)	Platform	Cal. weight, class	Item N°
AX85		82g	0,01mg		Ø 80mm	50g, E2	30852308
AX125D		82/120g	0,01mg/ 0,1mg		Ø 80mm	100g, E2	30852307
AX225D		102/220g	0,01mg/ 0,1mg		Ø 80mm	200g, E2	30852309
AX85M	•	85g	0,01mg	1mg	Ø 80mm	50g, E2	30852311
AX125DM	•	82/120g	0,01mg/ 0,1mg	1mg	Ø 80mm	100g, E2	30852310
AX225DM	•	102/220g	0,01mg/ 0,1mg	1mg	Ø 80mm	200g, E2	30852312

PIONEER™ Semi-Micro

Combining Economy and High Performance for Essential Weighing



OPTION

**ECONOMY
& ACCURACY**

Application

Basic weighing, parts counting, percent weighing, animal weighing, density determination, formulation

Display

Backlit Liquid Crystal Display (LCD); Second line display for additional information or guidance (dot matrix)

Operation

AC adapter (included)

Communication

RS232 and USB device (included); GLP/GMP data output with real-time clock

Construction

Metal base, ABS top housing, removable stainless steel pan, glass draftshield, integrated weigh-below-hook, security bracket, calibration lock and replaceable in-use cover

Design Features

User-selectable environmental filters and brightness settings, auto-tare, auto-dim, user-selectable span calibration points, software lockout and reset menu, user-selectable communication settings and data print options, user-definable project and user IDs, software overload/underload indicator, stability indicator, four operating languages



The PX offers high accuracy and repeatability for essential weighing applications in laboratory, industrial and education settings at an economical price point.

Featuring a cast metal lower housing, sub-pan and stainless steel weighing pan, the PX is durably constructed for versatile, long-term use.

Pioneer features a second line display for additional information or guidance, a static removal bar for convenient grounding, and USB connectivity.

Model	EC Type Approved	AutoCal™	Capacity	Readability (d)	(e)	Platform	Cal. weight, class	Item N°
PX125D		•	52g/120g	0,01mg/0,1mg		Ø 80mm	100g, E2	30478196
PX85		•	82g	0,01mg		Ø 80mm	50g+20g, E2	30485340
PX225D		•	82g/220g	0,01mg/0,1mg		Ø 80mm	200g, E2	30478197
PX125DM	•	•	52g/120g	0,01mg/0,1mg	1mg	Ø 80mm	100g, E2	30480168
PX85M	•	•	82g	0,01mg	1mg	Ø 80mm	50g+20g, E2	30485341
PX225DM	•	•	82g/220g	0,01mg/0,1mg	1mg	Ø 80mm	200g, E2	30480169

Accessories for Semi-Micro Balances

Accessories	Explorer™ Semi-Micro	Adventurer™ Semi-Micro	Pioneer™ Semi-Micro	Item N°
Density determination kit	•	•	•	80253384
Sinker Glass for Density kit	•	•	•	83034024
ION-100A EU stand-alone ionizer	•	•	•	30095929
Grid pan	•			30298582
Pipette adjustment kit	•			30252145
Ethernet interface	•			83021082
Interface Kit, RS232-USB	•	•	•	30304101
Cable, USB A to Mini USB, Black	•	•		28120263
In-Use Cover for EX	•			83033633
In-Use Cover for AX		•		30111792
In-Use Cover for PX			•	30372546
Dust Cover for EX	•			30093334
Anti-theft device (Models over 8 kg)	•	•	•	80850000
Terminal extension cable 2m	•			83021083
Terminal extension cable 9m	•			30078078
SF40A impact printer	•	•	•	30064202
Auxiliary display, AD7-RS	•	•	•	30472064
Anti theft device	•	•	•	80850043
Bluetooth impact printer SF40A/BT	•	•		30944359



DENSITY DETERMINATION KIT
80253384



SINKER GLASS FOR DENSITY KIT
83034024



ION-100A EU STANDALONE IONIZER
30095929



GRID PAN
30298582



PIPETTE ADJUSTMENT KIT
30252145



ETHERNET INTERFACE
83021082



INTERFACE KIT, RS232-USB
30304101



IN-USE COVER
30372546



IN-USE COVER
83033633



DUST COVER
30093334



ANTI THEFT DEVICE
80850000



TERMINAL EXTENSION CABLE 3M
83021083



TERMINAL EXTENSION CABLE 9M
30078078



SF40A IMPACT PRINTER
30064202



AUXILIARY DISPLAY, AD7-RS
30472064

EXPLORER™ Analytical

Highest performance, most technically advanced balance from OHAUS available also with auto door feature



INTELLIGENT PERFORMANCE

Application

Weighing (17 units + custom units), parts counting, percentage weighing, animal/dynamic weighing, check weighing, filling, totalization, formulation, differential weighing, density determination, peak hold, ingredient costing, pipette adjustment, fill weight variation, gross/net/tare weighing

Display

Full-colour VGA graphic display (diagonal 5.7"/145mm), detachable, 4-wire resistive touch screen. QWERTY keyboard and numeric keypad to quickly input GLP and GMP data and other application data

Operation

AC adapter (included)

Communication

Easy access communication ports including 2 units of USB port, RS232 and an optional 4th Ethernet port, GLP and GMP including date and time, Direct Data Transfer, print to USB drive

Construction

Metal base, ABS top housing, stainless steel pan, anti-static glass draftshield with flip-top door, replaceable in-use cover, automatic door on specific models

Design Features

3-doors frameless draftshield with removable panels with optional automatic draftshield door, modular display design with adjustable viewing angle (attach to base, wall or optional tower), AutoCal™ automatic internal Adjustment, level assist feature with illuminated level indicator, selectable environmental and auto-print settings, integral weigh below hook, protective in-use cover, software lock switch



Equipped with a weighing cell that's precision-machined from a solid metal block, Explorer balances are extremely accurate and durable, and are ideal for laboratory and industrial environments.

Features such as four-level user management with password protection, and un-editable system log plus a high level of configurability make Explorer balances well suited for regulated applications.

A detachable terminal with a large colour touchscreen, programmable IR sensors, automatic doors, and a frameless draftshield make Explorer analytical balances easy and convenient to use.

Model	EC Type Approved	Auto Door	Capacity	Readability (d)	(e)	Platform	Cal. weight, class	Item N°
EX124			120g	0.1mg		Ø 90mm	100g, E2	83021331
EX224			220g	0.1mg		Ø 90mm	200g, E2	83021332
EX324			320g	0.1mg		Ø 90mm	300g, E2	83021335
EX124/AD		•	120g	0.1mg		Ø 90mm	100g, E2	30061976
EX224/AD		•	220g	0.1mg		Ø 90mm	200g, E2	30061977
EX324/AD		•	320g	0.1mg		Ø 90mm	300g, E2	30061978
EX224M	•		220g	0.1mg	1mg	Ø 90mm	200g, E2	83021333
EX224M/AD	•	•	220g	0.1mg	1mg	Ø 90mm	200g, E2	30061995
EX324M	•		320g	0.1mg	1mg	Ø 90mm	300g, E2	83021336
EX324M/AD	•	•	320g	0.1mg	1mg	Ø 90mm	300g, E2	30061996

ADVENTURER™ Analytical

Intuitive Balances Designed for Routine Weighing



EASY OPERATION & TIME SAVING

Application

Weighing (17 units + custom unit), parts counting, percentage weighing, check weighing, animal/dynamic weighing, totalization/statistics, formulation, density determination, display hold, batch printing

Display

4.3" (109 mm) Full-colour VGA graphic touchscreen with user-controlled brightness, 6 mechanical buttons

Operation

AC adapter (included)

Communication

RS232, USB Host, USB Device (included), GLP/GMP compliant data output with real-time clock

Construction

Metal base, ABS top housing, stainless steel pan, glass draftshield with two piece top mounted side doors and sliding top door (1mg models only), illuminated up-front level indicator, integral weigh below hook, security bracket, adjustment lock, full housing replaceable in-use cover

Design Features

Selectable environmental filters, auto tare, user-selectable span adjustment points, software lockout and reset menu, user-selectable communication settings and data print options, user definable project and user IDs, up to 9 operating languages



Adventurer balances feature a color touchscreen, icon-based user interface, and an ergonomic design – making them easy to configure and use.

Features such as specialized weighing modes, multiple connectivity options, and AutoCal™ provide versatility and flexibility for a variety of applications.

Durable construction, large weighing surfaces, a space-saving draftshield design, and full housing in-use cover allow for use in lab, education and industrial environments.

Model	EC Type Approved	AutoCal™	Capacity	Readability (d)	(e)	Platform	Cal. weight, class	Item N°
AX124		•	120g	0.1mg		Ø 90mm	100g, E2	30122610
AX224		•	220g	0.1mg		Ø 90mm	200g, E2	30122611
AX324		•	320g	0.1mg		Ø 90mm	200g+100g, E2	30122613
AX124M	•	•	120g	0.1mg	1mg	Ø 90mm	100g, E2	30100620
AX224M	•	•	220g	0.1mg	1mg	Ø 90mm	200g, E2	30100621
AX324M	•	•	320g	0.1mg	1mg	Ø 90mm	200g+100g, E2	30100622
AX124/E			120g	0.1mg		Ø 90mm	100g, E2	30122657
AX224/E			220g	0.1mg		Ø 90mm	200g, E2	30122612

PIONEER™ Analytical

Combining Economy and High Performance for Essential Weighing



ECONOMY & ACCURACY

Application

Basic weighing, parts counting, percent weighing, animal weighing, density determination, formulation

Display

Backlit Liquid Crystal Display (LCD); second line display for additional information or guidance (dot matrix)

Operation

AC adapter (included)

Communication

RS232 and USB device (included); GLP/GMP data output with real-time clock

Construction

Metal base, ABS top housing, removable stainless steel pan, glass draftshield, integrated weigh-below-hook, security bracket, calibration lock and replaceable in-use cover

Design Features

User-selectable environmental filters and brightness settings, auto-tare, auto-dim, user-selectable span calibration points, software lockout and reset menu, user-selectable communication settings and data print options, user-definable project and user IDs, software overload/underload indicator, stability indicator, four operating languages



The PX offers high accuracy and repeatability for essential weighing applications in laboratory, industrial and education settings at an economical price point.

Featuring a cast metal lower housing, sub-pan and stainless steel weighing pan, the PX is durably constructed for versatile, long-term use.

Pioneer features a second line display for additional information or guidance, a static removal bar for convenient grounding, and USB connectivity.

Model	EC Type Approved	Internal Adjustment	Capacity	Readability (d)	(e)	Platform	Cal. weight, class	Item N°
PX124		•	120g	0,1mg		Ø 90mm	100g, E2	30429803
PX224		•	220g	0,1mg		Ø 90mm	200g, E2	30429804
PX124M	•	•	120g	0,1mg	1mg	Ø 90mm	100g, E2	30430010
PX224M	•	•	220g	0,1mg	1mg	Ø 90mm	200g, E2	30430013
PX124/E			120g	0,1mg		Ø 90mm	100g, E2	30429810
PX224/E			220g	0,1mg		Ø 90mm	200g, E2	30429811

PR SERIES Analytical

Designed for Routine Weighing Applications in Your Workplace



**ROUTINE WEIGHING
FOR ANY BUDGET**

Application

Basic weighing, parts counting, percent weighing

Display

Backlit Liquid Crystal Display (LCD)

Operation

AC adapter (included)

Communication

RS232 (one port included)

Construction

ABS top housing, removable stainless steel pan, glass draftshield with sliding top door, integrated weigh-below-hook, security bracket, calibration lock, replaceable in-use cover

Design features

User-selectable environmental filters and brightness settings, auto-tare, auto-dim, user-selectable span calibration points, software lockout and reset menu, user-selectable communication settings and data print options, user-definable project and user IDs, software overload/underload indicator, stability indicator



Basic Functionality for Routine Weighing Applications.

Designed for Uncomplicated Operation with Easy-to-Use Display and Interface.

Smart Design and Durable Construction.

Model	EC Type Approved	Internal Adjustment	Capacity	Readability (d)	(e)	Platform	Cal. weight, class	Item N°
PR124		•	120g	0,1mg		Ø 90mm	100g, E2	30430067
PR224		•	220g	0,1mg		Ø 90mm	200g, E2	30430069
PR124M	•	•	120g	0,1mg	1mg	Ø 90mm	100g, E2	30524384
PR224M	•	•	220g	0,1mg	1mg	Ø 90mm	200g, E2	30524385
PR124/E			120g	0,1mg		Ø 90mm	100g, E2	30430068
PR224/E			220g	0,1mg		Ø 90mm	200g, E2	30430070

Accessories for Analytical Balances

Accessories	Explorer™ Analytical	Adventurer™ Analytical	Pioneer™ Analytical	PR Series Analytical	Item N°
Density determination kit	•	•	•		80253384
Sinker Glass for Density kit	•	•	•		83034024
ION-100A EU stand-alone ionizer	•	•	•	•	30095929
In-Use Cover for EX	•				83033633
Full housing in use cover for 0.1mg and 1mg model for AX		•			30111792
In-Use Cover for PX			•		30372546
In-Use Cover for PR				•	30372547
Dust Cover for EX and AX (0.1mg)	•	•			30093334
Ethernet interface	•				83021082
Cable, USB A to Mini USB, Black	•				28120263
Interface Kit, RS232-USB	•	•	•	•	30304101
Cable, RS422, Extension, 2m	•				83021083
Cable, RS422, Extension, 9m	•				30078078
Auxiliary display, AD7-RS		•	•	•	30472064
Interface Cable, USB (Type A to B)		•			83021085
Anti theft device	•	•	•	•	80850043
SF40A impact printer	•	•	•	•	30064202
Carrying Case, EX	•				30251106
Carrying Case, AX		•			30251107
Carrying Case, PX			•		30477091
Bluetooth impact printer SF40A/BT	•	•			30944359



DENSITY DETERMINATION
80253384



SINKER GLASS FOR DENSITY KIT
83034024



ION-100A EU STANDALONE IONIZER
30095929



IN-USE COVER EX
83033633



DUST COVER
30093334



ETHERNET INTERFACE
83021082



ANTI-THEFT DEVICE
80850000



INTERFACE KIT, RS232-USB
30304101



CABLE, RS422, EXTENSION, 3M
83021083



CABLE, RS422, EXTENSION, 9M
30078078



AUXILIARY DISPLAY, AD7-RS
30472064



FULL HOUSING IN USE COVER AX
30111792



INTERFACE CABLE, USB (TYPE A TO B)
83021085



IN-USE COVER PX
30372546



IN-USE COVER PR
30372547



SF40A IMPACT PRINTER
ER 30064202

EXPLORER™ Precision

Intelligent Performance No Matter How Difficult the Task!



INTELLIGENT PERFORMANCE

Application

Weighing (17 units + custom units), parts counting, percentage weighing, animal/dynamic weighing, check weighing, filling, totalization, formulation, differential weighing, density determination, peak hold, ingredient costing, pipette adjustment (except for Explorer High Capacity), gross/net/tare weighing

Display

High resolution 5.7" (145mm diagonal) full colour VGA touch display including QWERTY, detachable and numeric key pads plus weighing capacity indication

Operation

AC adapter (included) or rechargeable battery (High Capacity models only)

Communication

Easy access communication ports including 2 units of USB port, RS232 and an optional 4th Ethernet port, GLP and GMP including date and time, Direct Data Transfer, print to USB drive

Construction

Modular design, metal base, ABS top housing, stainless steel pan, glass draftshield with top mounted side doors and flip/sliding top door (1mg models only), illuminated up-front level indicator, integral weigh below hook, security bracket, Adjustment lock, four touchless sensors, full housing in-use cover

Design Features

Selectable environmental filters, auto tare, user-selectable span Adjustment points, software lockout and reset menu, user-selectable communication settings and data print options, user-definable project and user IDs, auto standby, up to 14 operating language



Equipped with a weighing cell that's precision-machined from a solid metal block, Explorer balances are extremely accurate and durable, and are ideal for laboratory and industrial environments.

Features such as four-level user management with password protection, and un-editable system log plus a high level of configurability make Explorer balances well suited for regulated applications.

A detachable terminal with a large colour touchscreen, programmable IR sensors, and a frameless draftshield make Explorer precision balances easy and convenient to use.

Model	EC Type Approved	AutoCal™	Capacity	Readability (d)	(e)	Platform	Cal. weight, class	Item N°
EX223		•	220g	1mg		Ø 130mm	200g, F1	83021341
EX423		•	420g	1mg		Ø 130mm	400g, F1	83021342
EX623		•	620g	1mg		Ø 130mm	500g, F1	83021348
EX1103		•	1100g	1mg		Ø 130mm	1000g, F1	83021350
EX2202		•	2200g	0.01g		190mm×200mm	2000g, F1	83021356
EX4202		•	4200g	0.01g		190mm×200mm	4000g, F1	83021357
EX6202		•	6200g	0.01g		190mm×200mm	5000g, F1	83021360
EX10202		•	10200g	0.01g		190mm×200mm	10000g, F1	83021362
EX6201		•	6200g	0.1g		190mm×200mm	5000g, F1	83021361
EX10201		•	10200g	0.1g		190mm×200mm	10000g, F1	83021365
EX423M	•	•	420g	1mg	0.01g	Ø 130mm	400g, F1	83021343
EX1103M	•	•	1100g	1mg	0.01g	Ø 130mm	1000g, F1	83021351
EX4202M	•	•	4200g	0.01g	0.1g	190mm×200mm	4000g, F1	83021358
EX10202M	•	•	10200g	0.01g	0.1g	190mm×200mm	10000g, F1	83021363
EX10201M	•	•	10200g	0.1g	0.1g	190mm×200mm	10000g, F1	83021366
EX223/E			220g	1mg		Ø 130mm	200g, F1	30061979
EX423/E			420g	1mg		Ø 130mm	400g, F1	30061980
EX2202/E			2200g	0.01g		190mm×200mm	2000g, F1	30061981
EX4202/E			4200g	0.01g		190mm×200mm	4000g, F1	30061982
EX6202/E			6200g	0.01g		190mm×200mm	5000g, F1	30061983
EX6201/E			6200g	0.1g		190mm×200mm	5000g, F1	30061984
EX12001		•	12000g	0.1g		377mm×311mm	10kg, F1	30078072
EX24001		•	24000g	0.1g		377mm×311mm	20kg, F1	30078073
EX35001		•	35000g	0.1g		377mm×311mm	10+20kg, F1	30078074
EX12001M	•	•	12000g	0.1g	1g	377mm×311mm	10kg, F1	30057067
EX24001M	•	•	24000g	0.1g	1g	377mm×311mm	20kg, F1	30057068
EX35001M	•	•	35000g	0.1g	1g	377mm×311mm	10+20kg, F1	30057069

High Capacity

ADVENTURER™ Precision

Intuitive Balances Designed for Routine Weighing



**EASY OPERATION
& TIME SAVING**

Application

Weighing (17 units + custom unit), parts counting, percentage weighing, check weighing, animal/dynamic weighing, totalization/statistics, formulation, density determination, display hold, batch printing

Display

4.3" (109 mm) Full-colour VGA graphic touchscreen with user-controlled brightness, 6 mechanical buttons

Operation

AC adapter (included)

Communication

RS232, USB Host, USB Device (included), GLP/GMP compliant data output with real-time clock

Construction

Metal base, ABS top housing, stainless steel pan, glass draftshield with two piece top mounted side doors and sliding top door (1mg models only), illuminated up-front level indicator, integral weigh below hook, security bracket, adjustment lock, full housing replaceable in-use cover

Design Features

Selectable environmental filters, auto tare, user-selectable span adjustment points, software lockout and reset menu, user-selectable communication settings and data print options, user definable project and user IDs, up to 9 operating languages



Adventurer balances feature a color touchscreen, icon-based user interface, and an ergonomic design – making them easy to configure and use.

Features such as specialized weighing modes, multiple connectivity options, and AutoCal™ provide versatility and flexibility for a variety of applications.

Durable construction, large weighing surfaces, a space-saving draftshield design, and full housing in-use cover allow for use in lab, education and industrial environments.

Model	EC Type Approved	AutoCal™	Capacity	Readability (d)	(e)	Platform	Cal. weight, class	Item N°
AX223		•	220g	1mg		Ø 130mm	200g, F1	30127960
AX423		•	420g	1mg		Ø 130mm	200g+200g, F1	30127962
AX623		•	620g	1mg		Ø 130mm	500g, F1	30805890
AX422		•	420g	0,01g		175mm×195mm	200g+200g, F1	30206079
AX822		•	820g	0,01g		175mm×195mm	500g+100g, F1	30206081
AX1502		•	1520g	0,01g		175mm×195mm	1000g+500g, F1	30127966
AX2202		•	2200g	0,01g		175mm×195mm	2000g, F1	30127968
AX4202		•	4200g	0,01g		175mm×195mm	2000g+2000g, F1	30122616
AX6202		•	6200g	0,01g		175mm×195mm	5000g, F1	30805892
AX2201		•	2200g	0,1g		175mm×195mm	2000g, F1	30206083
AX4201		•	4200g	0,1g		175mm×195mm	2000g+2000g, F1	30127970
AX8201		•	8200g	0,1g		175mm×195mm	5000g+1000g, F1	30122619
AX223M	•	•	220g	1mg	0,01g	Ø 130mm	200g, F1	30100623
AX423M	•	•	420g	1mg	0,01g	Ø 130mm	200g+200g, F1	30100624
AX623M	•	•	620g	1mg	0,01g	Ø 130mm	500g, F1	30805896
AX1502M	•	•	1520g	0,01g	0,1g	175mm×195mm	1000g+500g, F1	30100626
AX2202M	•	•	2200g	0,01g	0,1g	175mm×195mm	2000g, F1	30100627
AX4202M	•	•	4200g	0,01g	0,1g	175mm×195mm	2000g+2000g, F1	30100628
AX6202M	•	•	6200g	0,01g	0,1g	175mm×195mm	5000g, F1	30805897
AX8201M	•	•	8200g	0,1g	1g	175mm×195mm	5000g+1000g, F1	30122651
AX223/E			220g	1mg		Ø 130mm	200g, F1	30127961
AX423/E			420g	1mg		Ø 130mm	200g+200g, F1	30127963
AX623/E			620g	1mg		Ø 130mm	500g, F1	30805891
AX422/E			420g	0,01g		175mm×195mm	200g+200g, F1	30206080
AX822/E			820g	0,01g		175mm×195mm	500g+100g, F1	30206082
AX1502/E			1520g	0,01g		175mm×195mm	1000g+500g, F1	30127967
AX2202/E			2200g	0,01g		175mm×195mm	2000g, F1	30127969
AX4202/E			4200g	0,01g		175mm×195mm	2000g+2000g, F1	30122617
AX6202/E			6200g	0,01g		175mm×195mm	5000g, F1	30805893
AX2201/E			2200g	0,1g		175mm×195mm	2000g, F1	30206084
AX4201/E			4200g	0,1g		175mm×195mm	2000g+2000g, F1	30127971
AX8201/E			8200g	0,1g		175mm×195mm	5000g+1000g, F1	30122620
AX12001		•	12000g	0,1g		175mm×195mm	10000g, F1	30805894
AX12001M	•	•	12000g	0,1g	1g	175mm×195mm	10000g, F1	30805898
AX12001/E			12000g	0,1g		175mm×195mm	10000g, F1	30805895

High Capacity

PIONEER™ Precision

Combining Economy and High Performance for Essential Weighing



ECONOMY & ACCURACY

Application

Basic weighing, parts counting, percent weighing, animal weighing, density determination, formulation

Display

Backlit Liquid Crystal Display (LCD); Second line display for additional information or guidance (dot matrix)

Operation

AC adapter (included)

Communication

RS232 and USB device (included); GLP/GMP data output with real-time clock

Construction

Metal base, ABS top housing, removable stainless steel pan, glass draftshield (1 mg models only), integrated weigh-below-hook, security bracket, calibration lock and replaceable in-use cover

Design Features

User-selectable environmental filters and brightness settings, auto-tare, auto-dim, user-selectable span calibration points, software lockout and reset menu, user-selectable communication settings and data print options, user-definable project and user IDs, software overload/underload indicator, stability indicator, four operating languages



The PX offers high accuracy and repeatability for essential weighing applications in laboratory, industrial and education settings at an economical price point.

Featuring a cast metal lower housing, sub-pan and stainless steel weighing pan, the PX is durably constructed for versatile, long-term use.

Pioneer features a second line display for additional information or guidance, a static removal bar for convenient grounding, and USB connectivity.

Model	EC Type Approved	Internal Adjustment	Capacity	Readability (d)	(e)	Platform	Cal. weight, class	Item N°
PX323		•	320g	1mg		Ø 120mm	200g+100g, F1	30429805
PX623		•	620g	1mg		Ø 120mm	500g+100g, F1	30619383
PX3202		•	3200g	0,01g		Ø 180mm	2kg+1kg, F1	30429807
PX6202		•	6200g	0,01g		Ø 180mm	5kg+1kg, F1	30619385
PX4201		•	4200g	0,1g		Ø 180mm	2kg+2kg, F1	30429809
PX323M	•	•	320g	1mg	0,01g	Ø 120mm	200g+100g, F1	30430015
PX623M	•	•	620g	1mg	0,01g	Ø 120mm	500g+100g, F1	30619386
PX3202M	•	•	3200g	0,01g	0,1g	Ø 180mm	2kg+1kg, F1	30430021
PX6202M	•	•	6200g	0,01g	0,1g	Ø 180mm	5kg+1kg, F1	30714491
PX4201M	•	•	4200g	0,1g	0,1g	Ø 180mm	2kg+2kg, F1	30430024
PX323/E			320g	1mg		Ø 120mm	200g+100g, F1	30429812
PX623/E			620g	1mg		Ø 120mm	500g+100g, F1	30619382
PX3202/E			3200g	0,01g		Ø 180mm	2kg+1kg, F1	30429814
PX6202/E			6200g	0,01g		Ø 180mm	5kg+1kg, F1	30619384
PX4201/E			4200g	0,1g		Ø 180mm	2kg+2kg, F1	30429816
PX12001		•	12000g	0,1g		193mm×248mm	10kg, F1	30868072
PX12001/E			12000g	0,1g		193mm×248mm	10kg, F1	30868073

High Capacity

PR SERIES Precision

Designed for Routine Weighing Applications in Your Workplace



**ROUTINE WEIGHING
FOR ANY BUDGET**



Application

Basic weighing, parts counting, percent weighing

Display

Backlit Liquid Crystal Display (LCD)

Operation

AC adapter (included)

Communication

RS232 (one port included)

Construction

ABS top housing, removable stainless steel pan, glass draftshield (1 mg models only) with sliding top door, integrated weigh-below-hook, security bracket, calibration lock

Design features

User-selectable environmental filters and brightness settings, auto-tare, auto-dim, user-selectable span calibration points, software lockout and reset menu, user-selectable communication settings and data print options, user-definable project and user IDs, software overload/underload indicator, stability indicator

Basic Functionality for Routine Weighing Applications.

Designed for Uncomplicated Operation with Easy-to-Use Display and Interface.

Smart Design and Durable Construction.

Model	EC Type Approved	Internal Adjustment	Capacity	Readability (d)	(e)	Platform	Cal. weight, class	Item N°
PR223		•	220g	1mg		Ø 120mm	200g, F1	30492730
PR423		•	420g	1mg		Ø 120mm	200g+200g, F1	30492731
PR523		•	520g	1mg		Ø 120mm	500g, F1	30492732
PR1602		•	1600g	0,01g		Ø 180mm	1kg+500g, F1	30492733
PR2202		•	2200g	0,01g		Ø 180mm	2kg, F1	30492734
PR4202		•	4200g	0,01g		Ø 180mm	2kg+2kg, F1	30492735
PR4201		•	4200g	0,1g		Ø 180mm	2kg+2kg, F1	30492736
PR6201		•	6200g	0,1g		Ø 180mm	5kg+1kg, F1	30498176
PR223M	•	•	220g	1mg	0,01g	Ø 120mm	200g, F1	30524386
PR423M	•	•	420g	1mg	0,01g	Ø 120mm	200g+200g, F1	30524387
PR523M	•	•	520g	1mg	0,01g	Ø 120mm	500g, F1	30524608
PR1602M	•	•	1600g	0,01g	0,1g	Ø 180mm	1kg+500g, F1	30524609
PR2202M	•	•	2200g	0,01g	0,1g	Ø 180mm	2kg, F1	30524610
PR4202M	•	•	4200g	0,01g	0,1g	Ø 180mm	2kg+2kg, F1	30524611
PR4201M	•	•	4200g	0,1g	0,1g	Ø 180mm	2kg+2kg, F1	30524612
PR6201M	•	•	6200g	0,1g	1g	Ø 180mm	5kg+1kg, F1	30524613
PR223/E			220g	1mg		Ø 120mm	200g, F1	30430071
PR423/E			420g	1mg		Ø 120mm	200g+200g, F1	30430072
PR523/E			520g	1mg		Ø 120mm	500g, F1	30430073
PR1602/E			1600g	0,01g		Ø 180mm	1kg+500g, F1	30430074
PR2202/E			2200g	0,01g		Ø 180mm	2kg, F1	30430075
PR4202/E			4200g	0,01g		Ø 180mm	2kg+2kg, F1	30430076
PR4201/E			4200g	0,1g		Ø 180mm	2kg+2kg, F1	30430077
PR6201/E			6200g	0,1g		Ø 180mm	5kg+1kg, F1	30430078

Accessories for Precision Balances

Accessories	Explorer™ Precision	Explorer™ Precision High Capacity	Adventurer™ Precision	Pioneer™ Precision	PR Series Precision	Item N°
Density determination kit (for 1 mg only)	•		•	•		80253384
Sinker Glass for Density kit	•		•	•		83034024
Auxiliary display, AD7-RS	•	•	•	•	•	30472064
In-Use Cover for EX	•	•				83033633
Full housing in-use cover for AX (1mg models)			•			30111792
Full housing in-use cover for AX (0.01g and 0.1g models)			•			30111777
In-Use Cover for PX (0.01g and 0.1g models)				•		30759721
In-Use Cover for PX				•		30372546
In-Use Cover for PR					•	30372547
Ethernet interface	•	•				83021082
Draft shield kit for EX 0,01g and 0,1g models	•					83021084
Tower Kit	•					83021102
Tower Kit		•				30078082
Anti theft device (models over 12kg)		•				80850000
Anti theft device	•		•	•	•	80850043
Cable, USB A to Mini USB, Black	•					28120263
Interface Kit, RS232-USB	•	•	•	•	•	30304101
Cable, RS422, Extension, 2m	•	•				83021083
Cable, RS422, Extension, 9m	•	•				30078078
SF40A impact printer	•	•	•	•	•	30064202
Battery Kit		•				30041295
Adjustable rolling feet		•				30041470
Interface Cable, USB (Type A to B)			•			83021085
Carrying Case, AX			•			30251108
Carrying Case, PX				•		30477092
Pan, 12kg, 300×225mm, PX (only for High Capacity models)				•		30868077
Bluetooth impact printer SF40A/BT	•	•	•			30944359



DENSITY DETERMINATION KIT
80253384



SINKER GLASS FOR DENSITY KIT
83034024



AUXILIARY DISPLAY, AD7-RS
30472064



IN-USE COVER
83033633



ETHERNET INTERFACE
83021082



DRAFT SHIELD KIT
83021084



TOWER KIT
83021102



ANTI THEFT DEVICE
80850000



INTERFACE CABLE, USB (TYPE A TO B)
83021085



INTERFACE KIT, RS232-USB
30304101



CABLE, RS422, EXTENSION, 3M
83021083



FULL HOUSING IN USE COVER
30111777



SF40A IMPACT PRINTER
ER30064202



IN-USE COVER
30372546



BATTERY KIT
30041295



ADJUSTABLE ROLLING FEET
30041470