

## STANDARD FEATURES



- isoCAL calibration
- Reptest
- RS-232 full-duplex interface
- GLP/GMP print out
- Configured print out
- Backlit Liquid Crystal Display (LCD), includes 1.8ft of remote cable
- User-friendly design displays menu and prompts in plain English
- Number and alpha keys
- Below balance weighing
- Monolithic weighing cell for extremely fast, accurate results
- Draft chamber 7.6 in x 8.1 in x 10.9 in (193mm x 205mm x 276mm)
- Multiple application programs
- Density determination on board
- Time controlled functions
- Statistical calculation on board

## SPECIFICATIONS

### CAPACITY:

LA120S: 120g  
 LA230S: 230g  
 LA230P: 60/120/230g  
 LA310S: 310g  
 LA130S-F: 150g

### READABILITY:

LA120S, LA230S, LA310S, LA130S-F: 0.1mg  
 LA230P: 0.1/0.2/0.5mg

### REPEATABILITY:

LA120S, LA230S:  $\leq \pm 0.1$ mg  
 LA230P:  $\leq \pm 0.1/0.2/0.5$ mg  
 LA310S, LA130S-F:  $\leq \pm 0.2$ mg

### LINEARITY:

LA120S, LA230S, LA130S-F:  $\leq \pm 0.2$ mg  
 LA230P:  $\leq \pm 0.2/0.2/0.5$ mg  
 LA310S:  $\leq \pm 0.3$ mg

### STABILIZATION TIME:

Two seconds

### SENSITIVITY DRIFT:

$\leq \pm 1 \times 10^{-6}$ ppm/ $^{\circ}$ C (10 $^{\circ}$ C and 30 $^{\circ}$ C)

### CALIBRATION:

isoCAL

### PAN SIZE:

3.5 in (90mm) diameter  
 LA130S-F: 8.2 in x 10.4 in (208 x 264 mm)

### CALIBRATION WEIGHT:

LA120S: 100g  
 LA230S, LA230P, LA310S: 200g

### WARRANTY:

Three-year limited warranty

PART #	SARTORIUS MODEL #	DESCRIPTION	EST. SHIP WEIGHT
49755.....	LA120S .....	120g x 0.1 mg .....	28 lb .....
49751.....	LA230S .....	230g x 0.1 mg .....	28 lb .....
49752.....	LA230P .....	60/120/230g x 0.1/0.2/0.5mg.....	28 lb .....
49753.....	LA310S .....	310g x 0.1 mg .....	28 lb .....
70538.....	LA130S-F .....	150g x 0.1 mg .....	28 lb .....

## OPTIONS/ACCESSORIES

36907.....	YDP03-0CE .....	Data Printer with statistics and time/date functions (included cable fits RS-232).....
31103.....	6906937 .....	Paper for data printer (PN 36907), five pack.....
31106.....	6906918 .....	Replacement ribbon for data printer (PN 36907) .....
32636.....	YRB06Z.....	Battery pack, rechargeable, external .....
70500.....	6971886 .....	220 VAC power supply .....
102077.....	6971961 .....	110 VAC power supply .....
70488.....	YRD11Z.....	Indicator, red-green-red, for over/under checkweighing, fits RS-232 and checkweighing software, 9 ft .....
31117.....	IDAC-97 .....	Digital-to-analog converter (fits RS-232).....
70489.....	QLC-97 .....	Quad limit controller (fits RS-232).....
46529.....	YFS01 .....	Foot switch with T-connector, for remote control of print, tare, cal, F, CFR, or toggle key (set up in menu) .....
70490.....	YHS02.....	Hand switch with T-connector, for remote control of print, tare, cal, F, CFR, or toggle key (setup in menu) .....
70502.....	YDS01TU .....	Plexiglas balance enclosure, w/anti-static coating 15.5 in W x 16 in D x 18 in H (393 W x 406 D x 457 mm H) .....
70503.....	YWP01LA .....	Weighing pan, for electrostatically charged samples.....
70504.....	6960LP03.....	Dust cover, for display .....
32637.....	LD2 .....	Locking device, anti-theft .....



### STANDARD FEATURES

- isoCAL calibration
- Reptest
- IP54 rating
- RS-232 full-duplex interface
- GLP/GMP printout protocol
- Configured print out
- Backlit Liquid Crystal Display (LCD)\*
- Number and alpha keys
- Below balance weighing\*\*
- Applications on board: counting, checkweighing, percent, unit toggle, preset tare, animal weighing, net total, formulation, statistics, calculations, timer, differential weighing, density determination, memory (300)

\* Cable length from balance to display is 1.8ft for balances with capacities ≤ 12 kg and 2.6ft for all others

\*\*Below balance weighing is a standard feature on models with capacities ≤ 12 kg. For all other capacities, accessory PN 83243 is required

### SPECIFICATIONS

#### CAPACITY:

LA2000P: 1010 | 2,000g  
 LA5200D: 1010 | 5,200g  
 LA220S: 220g  
 LA620S: 620g  
 LA1200S: 1200g  
 LA620P: 120/240/620g  
 LA3200D: 1,000/3,200g  
 LA420: 420g  
 LA820: 820g  
 LA2200S: 2200g  
 LA4200S: 4200g  
 LA6200S: 6200g  
 LA8200S: 8200g  
 LA2200P: 400/800/2,200g  
 LA8200P: 2,000/4,000/8,200g  
 LA5200P: 1,200/2,400/3,600/5,200g  
 LA2200: 2,200g  
 LA4200: 4,200g  
 LA6200: 6,200g  
 LA12000S: 12,000g  
 LA16001S: 16,000g  
 LA12000P: 3,000/6,000/12,000g  
 LA64001S: 64,000g  
 LA34001S: 34,000g  
 LA34000: 34,000g  
 LA34001P: 8,000/16,000/34,000g

#### READABILITY:

LA2000P, LA5200D: 1 | 10mg  
 LA220S, LA620S, LA1200S: 0.001g  
 LA620P: 0.001/0.002/0.005g  
 LA3200D: 0.001/0.01g  
 LA420, LA820, LA2200S, LA4200S, LA6200S, LA8200S : 0.01g  
 LA2200P, LA8200P: 0.01/0.02/0.05g  
 LA5200P: 0.01/0.02/0.05/0.1g  
 LA2200, LA4200, LA6200, LA12000S, LA16001S, LA64001S, LA34001S: 0.01g  
 LA12000P: 0.1/0.2/0.5g  
 LA34000: 1g  
 LA34001P: 0.1/0.2/0.5g

#### REPEATABILITY:

LA2000P, LA5200D: ±1 | 10  
 LA220S, LA620S, LA1200S: ± 0.001g  
 LA620P: ±0.001/0.002/0.005g  
 LA3200D: ±0.001/0.01g  
 LA420, LA820, LA2200S, LA4200S, LA6200S, LA8200S, : ±0.01g  
 LA2200P, LA8200P: ±0.01/0.01/0.03g  
 LA5200P: ±0.01/0.02/0.05/0.05g  
 LA2200, LA4200, LA6200, LA12000S, LA16001S: ±0.05g  
 LA12000P: ±0.1/0.2/0.3g  
 LA64001S, LA34001S: 0.1g  
 LA34000: ±0.5g  
 LA34001P: ±0.05/0.05/0.1g

#### LINEARITY:

LA2000P, LA5200D: ±2 | 10  
 LA220S, LA620S, LA1200S: ±0.002g  
 LA620P: ±0.001/0.002/0.005g  
 LA3200D: ±0.002/0.01g  
 LA420, LA820: ±0.01g  
 LA2200P, LA8200P: ±0.02/0.02/0.05g  
 LA2200S, LA4200S, LA6200S, LA8200S: ±0.02g  
 LA5200P: ±0.02/0.02/0.05/0.1g  
 LA2200, LA4200, LA6200, LA12000S: ±0.1g  
 LA12000P: ±0.1/0.1/0.5g  
 LA16001S, LA34001P: ±0.2g  
 LA34001S: ±0.2g  
 LA64001S: ±0.5g  
 LA34000: ±0.5g  
 LA64001S: ±0.5g

#### STABILIZATION TIME:

1.5 seconds  
 LA16001S, LA34000: ≤ 1 second

#### CALIBRATION WEIGHT:

LA220S, LA420: 200g  
 LA620P, LA620S, LA820: 500g  
 LA1200S, LA3200D: 1000g  
 LA2200P, LA2200S, LA4200S, LA5200P, LA2200, LA4200, LA6200: 2000g  
 LA6200S, LA8200S, LA8200P, LA12000P, LA12000S: 5000g  
 LA16001S, LA34001S, LA34001P, LA64001S, LA3400: 10,000g

#### SENSITIVITY DRIFT (+10 ... +30°C):

2 10-6 except:  
 LA64001S: 3 10-6  
 LA12000S, LA6200, LA4200, LA2200, LA12000P: 4 10-6

#### PAN SIZE:

LA2000P, LA5200D, LA220S, LA620P, LA620S, LA1200S, LA3200D: 5.1 in (130mm) diameter  
 LA420, LA820, LA2200P, LA2200S, LA4200S, LA5200P, LA6200S, LA8200S, LA8200P, LA2200, LA4200, LA6200, LA12000P, LA12000S: 8.6 in x 7.9 in (218 x 200mm)  
 LA16001S, LA34001S, LA34001P, LA64001S, LA34000: 15.7 in x 11.8 in (400 x 300mm)

#### WARRANTY:

Three-year limited warranty

<b>PART #</b>	<b>SARTORIUS MODEL #</b>	<b>DESCRIPTION</b>	<b>EST. SHIP WEIGHT</b>
43551.....	LA220S .....	220g x 0.001g .....	24 lb .....
43552.....	LA620P .....	120/240/620g x 0.001/0.002/0.005g.....	24 lb .....
43553.....	LA620S .....	620g x 0.001g .....	24 lb .....
43554.....	LA1200S .....	1,200g x 0.001g .....	24 lb .....
43555.....	LA3200D .....	1,000/3,200g x 0.001/0.01g .....	24 lb .....
43556.....	LA420 .....	420g x 0.01g .....	22 lb .....
43557.....	LA820 .....	820g x 0.01g .....	22 lb .....
43558.....	LA2200P .....	400/800/2,200g x 0.01/0.02/0.05g.....	22 lb .....
43559.....	LA2200S .....	2,200g x 0.01g .....	22 lb .....
43560.....	LA4200S .....	4,200g x 0.01g .....	22 lb .....
51337.....	LA5200P .....	1,200/2,400/3,600/5,200g x 0.01/0.02/0.05/0.1g .....	22 lb .....
98039.....	LA2000P .....	1,010 2,000g.....	22 lb .....
43561.....	LA6200S .....	6,200g x 0.01g .....	22 lb .....
64104.....	LA8200S .....	8,200g x 0.01g .....	22 lb .....
64103.....	LA8200P .....	2,000/4,000/8,200g x 0.01/0.02/0.05g.....	22 lb .....
98040.....	LA5200D .....	1,010 5,200g.....	22 lb .....
43562.....	LA2200.....	2,200g x 0.1g .....	22 lb .....
43563.....	LA4200.....	4,200g x 0.1g .....	22 lb .....
43564.....	LA6200.....	6,200g x 0.1g .....	22 lb .....
43566.....	LA12000P .....	3,000/6,000/12,000g x 0.1/0.2/0.5g.....	22 lb .....
43565.....	LA12000S .....	12,000g x 0.1g .....	22 lb .....
70526.....	LA160001S .....	16,000g x 0.1g .....	42 lb .....
70551.....	LA34001S .....	34,000g x 0.1g .....	42 lb .....
70527.....	LA34001P .....	8,000/16000/34000g x 0.1/0.2/0.5g.....	42 lb .....
70552.....	LA64001S .....	64,000g x 0.1g .....	42 lb .....
70528.....	LA34000.....	34,000g x 1g .....	42 lb .....

### OPTIONS/ACCESSORIES

36907.....	YDP03-OCE.....	Data printer with statistics and time/date functions (included cable fits RS-232) .....	
31103.....	6906937.....	Paper for data printer (PN 36907), five pack.....	
31106.....	6906918.....	Replacement ribbon for data printer (PN 36907) .....	
32636.....	YRB06Z.....	Battery pack, rechargeable, external .....	
70500.....	6971886.....	220VAC power supply .....	
102077.....	6971961.....	110VAC power supply .....	
70487.....	YRD02Z.....	Remote display, reflective, 3 ft (fits RS-232)* .....	
70488.....	YRD11Z.....	Indicator, red-green-red, for over/under checkweighing, fits RS-232 and checkweighing software, 9ft .....	
31117.....	IDAC-97 .....	Digital-to-analog converter (fits RS-232) .....	
70489.....	QLC-97 .....	Quad limit controller (fits RS-232) .....	
46529.....	YFS01 .....	Foot switch with T-connector, for remote control of print, tare, cal, F, CFR, or toggle key (set up in menu) .....	
70490.....	YHS02.....	Hand switch with T-connector, for remote control of print, tare, cal, F, CFR, or toggle key (setup in menu) .....	
70519.....	641211 .....	Weighing bowl (240g), 1000mL, chrome-nickel-steel, 7 in dia., 2.8 in H .....	
32637.....	LD2 .....	Locking device, anti theft.....	
70522.....	6960LP02.....	Dust cover, one-piece (all models except LA220S, LA620P, LA620S, LA1200S, LA3200D, and LA devices with nominal capacity ≥ 12000 grams) .....	
70521.....	6960LP01.....	Dust cover, one-piece .....	
43549.....	YDK01LP.....	Density kit (does not include software).....	
43548.....	YDS01LP.....	Square draft chamber 7.5 in W x 8.2 in D x 11 in H (190mm W x 208mm D x 279mm H).... LA models with nominal capacity ≤ 12000 grams only	
70502.....	YDS01TU .....	Plexiglas balances enclosure, w/anti-static coating 15.5 in W x 16 in D x 18 in H (393mm W x 406mm D x 457mm H) .....	
83243.....	69EA0040 .....	Hanger, for below balance weighing	

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