



## Analytical and Precision Balances 2008



## Precision Bench and Floor Scales



	Page	High-resolution weighing systems up to 0.1 mg	Internal calibration/ adjustment	Factory verification	Backlit graphical display	RS-232 interface	Anti-theft locking device	Under-pan weighing	Basic applications	Animal weighing	Density determination	Battery operation
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• = Standard

o = Optional

\* = Available for most models in the series

ACCULAB offers a broad spectrum of electronic weighing instruments for virtually all applications, from laboratory analysis to the highest capacity scales for use in industry, trade and commerce. Whether it's a precision balance used in teaching, a portable balance for sample analysis in environmental sciences, or a counting scale for incoming inspection, every ACCULAB instrument is tailored to its area of use.

ACCULAB began marketing weighing instruments in 1986, and by 1989 was already manufacturing its own products. Within just a few years, ACCULAB had become one of the leading suppliers of weighing instruments in the US. Since 1997 ACCULAB has been a member of the Sartorius Group, one of the largest international players in the field of mechatronics. ACCULAB draws on the expertise, the supplier network and, most importantly, on the pioneering technology of Sartorius.

The new ACCULAB product portfolio is designed under the direction of the Sartorius Group and is manufactured in the US, Germany and China.

ACCULAB products are sold worldwide through dedicated authorized dealers. This ensures local support and responsive service, even for products that have been in use for many years. Beginning in 2005, ACCULAB has been offering a complete new line of products.

From the ATL Series of laboratory balances for professionals to the POCKET-PRO portable balances, ACCULAB presents high-performance instruments in every product category. ACCULAB addresses the needs of the customer and develops product features that are as practical as they are unique. One of the featured design examples are the world's first stackable electronic weighing instruments for convenient storage and transport.

ACCULAB's commitment is to offer more than you would expect to get in this price range, from practical features and easy operation to high-performance technology and fast product delivery. The difference is decisive.

### Weighing Capacity and Readability

Weighing capacity	Readability 0.1 mg	1 mg/0.001 g	5 mg/0.005 g	10 mg/0.01 g	100 mg/0.1 g	1 g	2 g/5 g/20 g/50 g
up to 100 g	ATL						
	ALC			PP			
100–220 g	ALC	VIC	VIC	VIC	PP	EC	
	ATL						
220–500 g		VIC	VIC	VIC	EC	PP	
		ALC				VIC	
		ATL					
500–1000 g				VIC	VIC		
				ALC			
				ATL			
1–5 kg				ALC	VIC	EC	
				ATL	ALC	VIC	
6–10 kg				ATL	ALC	VIC	
					ATL		
20–200 kg							SVI

ATILON	6	ALC	8	VICON	10	ECON	12	Pocket-Pro	14	SVI	16
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# ATILON

**New**



The new ATILON is the premium-model ACCULAB balance. It comes with everything you need for efficient work in the laboratory. All models can be optionally equipped with

built-in motorized calibration weights, or factory-verified for use in legal metrology.

The ATILON has 4 digital filter levels for optimum adaptation to ambient conditions, for even faster and more stable weighing results.



Backlit display and clearly laid out operating panel



RS-232 data interface and anti-theft locking device

All details that are constantly used by the operator are designed for the greatest possible efficiency. Large keys, a backlit display that is easy to read, menu-driven operation, easy-to-clean weighing chamber and additional leveling feet\* for stable positioning are only a few of the standard features that make the ATILON a pleasure to use. With all of these outstanding features, the attractive ACCULAB design and the unbeatable value for money, ATILON is sure to become an indispensable aide in your laboratory.

\* on models with a rectangular weighing pan

### Performance features:

- Large, amber LCD with backlighting
- 6 application programs
- RS-232 data interface
- 23 weight units
- Clear operating panel

### Product description:

- Rugged housing made of ABS plastic
- Stainless steel weighing pans
- Applications include: density determination, weighing in percent, counting, net-total formulation, animal weighing, mass unit conversion
- Large, frameless draft shield on all models with 0.1 mg resolution
- Four digital filter levels
- Built-in calibration (-I and -V versions)
- Verified at the factory (-V versions)

### Precision balances in the ATILON series

Model number	Weighing capacity	Readability	Linearity	Repeatability	Pan size
ATL-84*	80 g	0.0001 g	≤± 0.2 mg	≤± 0.1 mg	Ø 90 mm
ATL-124*	120 g	0.0001 g	≤± 0.2 mg	≤± 0.1 mg	Ø 90 mm
ATL-224*	220 g	0.0001 g	≤± 0.2 mg	≤± 0.1 mg	Ø 90 mm
ATL-153*	150 g	0.001 g	≤± 0.002 g	≤± 0.001 g	Ø 115 mm
ATL-423*	420 g	0.001 g	≤± 0.002 g	≤± 0.001 g	Ø 115 mm
ATL-623*	620 g	0.001 g	≤± 0.002 g	≤± 0.001 g	Ø 115 mm
ATL-822*	820 g	0.01 g	≤± 0.02 g	≤± 0.01 g	Ø 115 mm
ATL-822 V	820 g	0.01 g	≤± 0.02 g	≤± 0.01 g	180×180 mm
ATL-2202*	2200 g	0.01 g	≤± 0.02 g	≤± 0.01 g	180×180 mm
ATL-4202*	4200 g	0.01 g	≤± 0.02 g	≤± 0.01 g	180×180 mm
ATL-6202*	6200 g	0.01 g	≤± 0.02 g	≤± 0.01 g	180×180 mm
ATL-6201*	6200 g	0.1 g	≤± 0.2 g	≤± 0.1 g	180×180 mm
ATL-8201*	8200 g	0.1 g	≤± 0.2 g	≤± 0.1 g	180×180 mm

\* -I with built-in calibration

-V with factory verification and built-in calibration

### Accessories

Order No.	Description
LC-1	Lock-down capability (for anti-theft locking device), padlock
YDP03-OCE	Printer

Weights: see page 19



Model with 1 mg readability



RS-232 data interface



The ALC series from ACCULAB offers excellent performance in an economical entry-level model in the analytical class, and meets the most common requirements for today's laboratory applications.

All ALC models are made with state-of-the-art technology to provide high accuracy, repeatability and outstanding features at a remarkably affordable price. ALC models are distinguished by attractive design, compact housing and user-friendly operation. Whether you are weighing precious metals, counting parts, or measuring chemicals and liquids, the ALC series is the right choice.



### Performance features:

- Fast response times and very stable weighing results
- Four application programs
- Easy operation
- Connectivity for printer and computer

### Product description:

- Rugged housing made of ABS plastic with liquid crystal display (LCD)
- 20 units of measurement to choose from
- Applications include: counting, weighing in percent, averaging, net/total formulation
- Digital filter for optimum adaptation to ambient conditions
- Lock-down capability (for anti-theft locking device) built-in
- Serial bidirectional RS-232 data interface
- Stainless steel weighing pans
- External calibration/adjustment at the press of a key
- Analytical balances with large glass draft shield that offers 3-way accessibility
- Level indicator and adjustable feet standard on all models

### Analytical and precision balances in the ALC series

Model number	Weighing capacity	Readability	Linearity	Repeatability	Pan size
ALC-80.4	80 g	0.1 mg	≤± 0.2 mg	≤± 0.1 mg	Ø 80 mm
ALC-110.4	110 g	0.1 mg	≤± 0.2 mg	≤± 0.1 mg	Ø 80 mm
ALC-210.4	210 g	0.1 mg	≤± 0.2 g	≤± 0.1 mg	Ø 80 mm
ALC-150.3*	150 g	1 mg	≤± 0.003 g	≤± 0.003 g	Ø 100 mm
ALC-320.3*	320 g	1 mg	≤± 0.002 g	≤± 0.001 g	Ø 80 mm
ALC-810.2	810 g	0.01 g	≤± 0.02 g	≤± 0.01 g	Ø 116 mm
ALC-1100.2	1.100 g	0.01 g	≤± 0.03 g	≤± 0.015 g	Ø 150 mm
ALC-2100.2	2.100 g	0.01 g	≤± 0.02 g	≤± 0.01 g	Ø 150 mm
ALC-3100.2	3.100 g	0.01 g	≤± 0.02 g	≤± 0.01 g	Ø 150 mm
ALC-2100.1	2.100 g	0.1 g	≤± 0.2 g	≤± 0.1 g	Ø 150 mm
ALC-4100.1	4.100 g	0.1 g	≤± 0.2 g	≤± 0.1 g	Ø 150 mm
ALC-6100.1	6.100 g	0.1 g	≤± 0.2 g	≤± 0.1 g	Ø 150 mm

\* Round glass draft shield included

### Accessories

Order No.	Description
YDPO3-OCE	Printer

See page 19 for recommend calibration weights



Weighing with milligram precision



Calibration weights in drawer



Closed dust cover

The balances in the VICON series from ACCULAB are distinguished by their excellent value for money and an ingenious design, with many practical details. The VICON series offers resolutions up to 1 milligram and weighing capacities up to 10 kg, making it ideal for use in laboratories, education, training and in industry, as well as for special applications in many areas. All models have a flip-up cover for safe transportation and can be easily stacked without slipping.

Whether you want to weigh multiple samples with totaled results, count parts or weigh under pan – ACCULAB has the answer in VICON. And if you want to add a data interface at a later point, you can do it yourself quickly and easily.

**Performance features:**

- Handy operating design
- Large amber backlit liquid-crystal display for optimum readability in all ambient conditions
- Intuitive operation thanks to clear allocation of features to keys

- Removable flip-up cover for safe transportation and fast securing of the balance for transport
- Stackable design saves storage space
- Five application programs
- Optional, user-installable USB or RS-232 interface kits
- 100 g calibration weight in built-in drawer

#### Product description:

- Rugged housing made of ABS plastic with maximum overload protection
- Stainless steel weighing pan
- Applications include: counting, weighing in percent, hold display, totaling, determining specific weight, under-balance weighing
- 14 mass units conversions to choose from with selectable factor
- External calibration
- Lock-down capability (for anti-theft locking device) built-in
- Optional 9V battery operation (excluding 1-mg and 5-mg models)
- Round glass draft shield, level indicator and adjustable feet included on all 1-mg and 5-mg models

#### Precision balances of the VICON series

Model number	Weighing capacity	Readability	Linearity	Repeatability	Pan size
VIC-123*	120 g	1 mg	≤± 0.003 g	≤± 0.002 g	Ø 97 mm
VIC-2mg*	210 g	5 mg	≤± 0.01 g	≤± 0.01 g	Ø 97 mm
VIC-303*	300 g	1 mg	≤± 0.004 g	≤± 0.003 g	Ø 97 mm
VIC-4mg*	410 g	5 mg	≤± 0.01 g	≤± 0.01 g	Ø 97 mm
VIC-212	210 g	0.01 g	≤± 0.035 g	≤± 0.02 g	Ø 97 mm
VIC-412	410 g	0.01 g	≤± 0.03 g	≤± 0.01 g	142×130 mm
VIC-612	610 g	0.01 g	≤± 0.03 g	≤± 0.01 g	142×130 mm
VIC-511	510 g	0.1 g	≤± 0.2 g	≤± 0.1 g	142×130 mm
VIC-711	710 g	0.1 g	≤± 0.2 g	≤± 0.1 g	142×130 mm
VIC-1501**	1.500 g	0.1 g	≤± 0.2 g	≤± 0.1 g	142×130 mm
VIC-3101**	3.100 g	0.1 g	≤± 0.2 g	≤± 0.1 g	142×130 mm
VIC-5101**	5.100 g	0.1 g	≤± 0.2 g	≤± 0.1 g	142×130 mm
VIC-4kg**	4.100 g	1 g	≤± 1 g	≤± 1 g	142×130 mm
VIC-6kg**	6.100 g	1 g	≤± 2 g	≤± 1 g	142×130 mm
VIC-10kg**	10.100 g	1 g	≤± 2 g	≤± 1 g	142×130 mm

\* Round glass draft shield included    \*\* Recommended calibration weights not included (see page 19)

#### Accessories

Order No.	Description
YADAP-RS	Installation kit for RS-232 interface
YADAP-USB	Installation kit for USB port
LC-1	Lock-down capability (for anti-theft locking device)
YDB06	Hard-shell carrying case

# ECON



Stack of ECON balances



Anti-theft locking device

The ECON series offers more than just precise weighing results “on the move.” Thanks to their combination of compact, rugged housing, microprocessor control and high-performance weighing system, the precision balances in the ECON series give unbeatable value for money. With up to 4,000 scale intervals, ECON is the most economical series in its class.

The compact design is both rugged and practical – perfect for every day use. Its exclusive stackable housing makes it easy and convenient to safely store the product in large numbers, for example in schoolroom applications.

**Performance features:**

- Rugged ABS housing with liquid-crystal display
- Stackable design for safe storage saves space
- Flexible operation with battery or optional AC adapter
- Selectable weight units
- Lightweight and portable
- Lock-down capability (for anti-theft locking device) built-in

**Product description:**

- Simple 3-key operation with external calibration
- Battery included
- 5 weight units: g, lb, oz, dwt, ozt
- Low battery, overload and underload indicators
- Automatic shutdown

**Precision balances in the ECON series**

Model number	Weighing capacity	Readability	Pan size
EC-211	210 g	0.1 g	135×140 mm
EC-411	410 g	0.1 g	135×140 mm
EC-2100	2,100 g	1 g	135×140 mm
EC-4100	4,100 g	1 g	135×140 mm

**Accessories**

Order No.	Description
6971951	A/C adapter for Europe: 220V, 2-pin CE
6971952	A/C adapter for the UK: 220V, 3-pin CE
LC-1	Lock-down capability (for anti-theft locking device)
YDB06	Hard-shell carrying case

See page 19 for recommend calibration weights

# POCKET-PRO



Calibration weight included

The POCKET-PRO series has been developed for portability, making these balances perfect for use in motion and on the road – especially when little space is available for complex equipment. POCKET-PRO equipment features 0.1 g and 0.01 g readability, ideal for sample preparation, test kits and special applications. The backlit, graphical display can be read even under poor lighting conditions and is unique in its class.

All models have a rugged housing made of ABS plastic and a handy sliding mechanism that locks the weighing pan and protects the display during transport.

**Performance features:**

- Locking mechanism for effective protection during transport
- Blue backlit liquid crystal display
- Selectable weight units
- External calibration
- Economical operation with a single 1.5V AA battery
- Rugged ABS housing

**Product description:**

- Weight units: grams and ounces; model PP-62 also has carats and grains
- Automatic energy-saving mode
- Audio and visual overload, underload and low battery indicators
- Weighing tray, battery and calibration weight included

**Portable balances of the POCKET-PRO series**

Model number	Weighing capacity	Readability	Pan size
PP-62	65 g	0.01 g	90×75 mm
PP-201	200 g	0.1 g	90×75 mm
PP-401	400 g	0.1 g	90×75 mm



Weighing pan attachment for loose sample material



Backlit graphical display



Flexible, backlit graphical display



RS-232 data interface



Model with 20 kg weighing capacity

SVI models are ideal for basic applications in industry and shipping. With weighing capacities of up to 200 kg and two platform sizes, this series has everything you ever wanted. All models come with a remote display, making it easy to install the scale wherever it is needed.

The display is adjustable and has a backlit readout for optimum readability. The RS-232 data interface is a standard feature and provides connectivity for a printer and a PC.



### Performance features:

- Large blue backlit liquid-crystal display for wall mounting or table-top use
- Removable stainless steel low-profile weighing platform available in two sizes
- Industrial design with more than 200% overload protection
- Two application programs
- External calibration with three selectable weight values

### Product description:

- Remote display with ABS plastic housing, wall-mounting retainer and 3 m spiral cable
- Applications include: counting, totaling
- Selectable weight units: kg, lbs, ozt (up to 20 kg capacity, also g)
- All models suitable for battery operation
- Automatic shutoff in battery operation
- External calibration/adjustment with choice of weight values
- Bidirectional RS-232 data interface
- Interface cable
- AC adapter

### Bench platform scales of the SVI series

Model number	Weighing capacity	Readability	Linearity	Pan size
SVI-10A	10 kg	1 g	± 2 g	308×308 mm
SVI-20B	20 kg	2 g	± 4 g	308×308 mm
SVI-50C	50 kg	5 g	± 10 g	308×308 mm
SVI-100E	100 kg	20 g	± 40 g	403×520 mm
SVI-200F	200 kg	50 g	± 100 g	403×520 mm

Recommended calibration weights not included





### Power supplies

	EU, 220V, 2-pin CE	UK, 220V 3-pin CE
ALC Series	6971951	6971952
ATL Series	6971412	6971966 + 6971945
VICON Series	6971951	6971952
ECON Series	6971951	6971952
SVI Series	6971951	6971952
POCKET-PRO Series	-	-

Prices on request

## Calibration weights

Balance order no.	Weight	Class	Weight: order no.	Weights: quantity
ALC-80.4	100g	E2	YCW4528-00	1
ALC-110.4	100 g	E2	YCW5128-00	1
ALC-210.4	200 g	E2	YCW5228-00	1
ALC-150.3	100 g	F1	YCW5138-00	1
ALC-320.3	200 g	F1	YCW5238-00	1
ALC-810.2	1kg	F1	YCW5538-00	1
ALC-1100.2	1 kg	F1	YCW6138-00	1
ALC-2100.2	2 kg	F1	YCW6238-00	1
ALC-3100.2	2 kg	F1	YCW6238-00	1
ALC-2100.1	1 kg	F2	YCW6148-00	1
ALC-4100.1	2 kg	F2	YCW6248-00	1
ALC-6100.1	5 kg	F2	YCW6548-00	1
VIC-123*	100 g	F1	69V0006	1
VIC-2mg*	200 g	F1	69V0006	2
VIC-303*	200 g	F1	69V0006	2
VIC-4mg*	200 g	F1	69V0006	2
VIC-212*	200 g	F1	69V0006	2
VIC-412*	200 g	F1	69V0006	2
VIC-612*	200 g	F1	69V0006	2
VIC-511	200 g	F1	69V0006	2
VIC-711	200 g	F1	69V0006	2
VIC-1501	1 kg	M1	YCW615-00	1
VIC-3101	2 kg	F2	YCW6248-00	1
VIC-5101	5 kg	F2	YCW6548-00	1

## Calibration weights

Balance order no.	Weight	Class	Weight: order no.	Weights: quantity
VIC-4kg	2 kg	M2	YCW626-00	1
VIC-6kg	5 kg	M2	YCW656-00	1
VIC-10kg	5 kg	M1	YCW655-00	1
EC-211	200 g	F1	YCW5238-00	1
EC-411	200 g	F1	YCW5238-00	1
EC-2100	2 kg	M2	YCW626-00	1
EC-4100	2 kg	M2	YCW626-00	1
SVI-10A	10 kg	M2	YCW7169-00	1
SVI-20B	20 kg	M2	YCW7269-00	1
SVI-50C	20 kg	M2	YCW7269-00	1
SVI-100E	50 kg	M2	YCW7569-00	1
SVI-200F	50 kg	M2	YCW7569-00	1
PP-62*	50 g	M2	On request	1
PP-201*	100 g	M2	On request	1
PP-401*	200 g	M2	On request	1

\* Included in delivery

Prices on request.







**Your authorized ACCULAB dealer:**

Sartorius AG reserves the right to make changes to the technology, features, specifications and design of the equipment without notice. Printed in Germany on paper that has been bleached without any use of chlorine.

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