



Analytical and Precision Balances and Industrial Scales 2009





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• = Standard

o = Optional

* = Available for most models in the series

ACCULAB offers a broad spectrum of 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. ACCULAB has been a member of the Sartorius Group since 1997, 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 services, 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 | 0.5 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 | | | | | | |
| 500–1,000 g | | | | VIC | VIC | | | |
| | | | | ALC | | | | |
| | | | | ATL | | | | |
| 1–5 kg | | | | ALC | VIC | EC | | |
| | | | | ATL | ALC | VIC | | |
| 6–10 kg | | | | ATL | ALC | VIC | | |
| | | | | | ATL | ECL | SVI | |
| 15–300 kg | | | | | | ECL | ECL | SVI |

| | | | | | | | | | | | | | |
|--------|---|-----|---|-------|----|------|----|------------|----|-----|----|-----------|----|
| ATILON | 6 | ALC | 8 | VICON | 10 | ECON | 12 | Pocket-Pro | 14 | SVI | 16 | EXCELERON | 19 |
|--------|---|-----|---|-------|----|------|----|------------|----|-----|----|-----------|----|

ATILON



The precision and analytical balances of the ATILON series are ACCULAB's premium models. 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 aid in your laboratory.

* on models with a rectangular weighing pan

Performance features:

- Large, amber LCD with backlighting
- Six 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
- 4 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 | Reproducibility | 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 | 180×180 mm |
| ATL-822-V | 820 g | 0.01 g | ≤± 0.02 g | ≤± 0.01 g | Ø 115 mm |
| ATL-2202* | 2,200 g | 0.01 g | ≤± 0.02 g | ≤± 0.01 g | 180×180 mm |
| ATL-4202* | 4,200 g | 0.01 g | ≤± 0.02 g | ≤± 0.01 g | 180×180 mm |
| ATL-6202* | 6,200 g | 0.01 g | ≤± 0.02 g | ≤± 0.01 g | 180×180 mm |
| ATL-6201* | 6,200 g | 0.1 g | ≤± 0.2 g | ≤± 0.1 g | 180×180 mm |
| ATL-8201* | 8,200 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 |
| YDP20-OCE | Printer |
| YDC05-A | Guard cover for balances with a round wind shield |
| YDC06-A | Guard cover for balances with a rectangular wind shield |
| YDK01B | Density determination kit for analytical balances |
| 6960BP08 | Dust cover for analytical balances |



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 an 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 measurements to choose from
- Applications include: counting, weighing in percent, averaging, net-total formulation
- Digital filters 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 | Reproducibility | 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 mg | ≤± 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

See page 20 for 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 the 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 the 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 a clear allocation of features to keys

- Removable flip-up cover for optimal protection and fast securing of the balance for transport
- Stackable design saves storage space
- Five application programs
- Optional USB or RS-323 interfaces
- 100 g Calibration weights in integrated drawer
- Suitable for use as a mobile balance

Product description:

- Rugged housing made of ABS plastic with maximum overload protection
- Stainless steel weighing pans
- Applications include: counting, weighing in percent, hold display, totaling, determining specific weight, under-balance weighing
- 14 weight units 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 | Reproducibility | 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 | 142×130 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 ** Calibration weights not included (see page 20)

Accessories

| Order No. | Description |
|-----------|---|
| YADAP-RS | RS-232 data interface adapter |
| YADAP-USB | USB data interface adapter |
| LC-1 | Lock-down capability (for anti-theft locking device), padlock |
| 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”. This ACCU-LAB-typical design includes robust, cost-effective functional balances for simple tasks using the latest technology “Designed in Germany.” 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 saves storage 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
- Five weight units: g, lb, oz, dwt, ozt
- Low battery, overload and underload indicators
- Automatic shutoff

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), padlock |
| YDB06 | Hard-shell carrying case |

See page 20 for calibration weights

POCKET-PRO



Calibration weight included

The POCKET-PRO series has been developed for portability, making these balances perfect for use while in motion and on the road – especially when little space is available for complex equipment. POCKET-PRO balances feature 0.1 g through 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 using 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 “Autolast” (autoload) function enables highly stable weighing results. 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 three weight values
- Bidirectional RS232 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 |

See page 20 for calibration weights



EXCELERON



The new EXCELERON models are simple, robust industrial scales with no expensive extras. Due to their high resolutions and fast filter algorithms, these scales deliver the fastest results – for even the smallest of changes – simply unbeatable in their class. The humidity-resistant weigh cell situated under the stainless steel load plate can also operate for long periods in wet environments and can simply be rinsed down with water after use. When in battery mode, the EXCELERON is also suitable for mobile use independent of mains power. A control function allows you to check weight limits quickly and a counting function completes the picture of an all-inclusive industrial scale. Seven models with weighing ranges from 6 to 300 kg are available in three platform sizes.

Performance features:

- Operating unit with backlit LCD display – good readability even from a distance
- Large keys for easy and safe operation
- Counting and control functions – easy for everyday use
- Large-area weighing platforms
- Very good resolution
- Battery operation with energy-saving mode and Auto Off after 5 minutes if load is not changed

Product description:

- Standard support arm for raising the display
- Standard leveling feet and level indicator
- Comprehensive range of accessories
- Water-resistant weigh cell
- Stainless steel load plate

Industrial scales of the EXCELERON series

| Model number | Weighing capacity | Read-ability | Pan size |
|-----------------|-------------------|--------------|------------|
| ECL6EDP-L0-EU | 6 Kg | 0.5 g | 400×300 mm |
| ECL15EDP-L0-EU | 15 Kg | 1 g | 400×300 mm |
| ECL30EDP-L0-EU | 30 Kg | 2 g | 400×300 mm |
| ECL60EDP-L0-EU | 60 Kg | 5 g | 400×300 mm |
| ECL60FEP-L0-EU | 60 Kg | 5 g | 500×400 mm |
| ECL150FEP-L0-EU | 150 Kg | 10 g | 500×400 mm |
| ECL300GFP-L0-EU | 300 Kg | 20 g | 650×500 mm |

Accessories

| Order No. | Description |
|---------------|---|
| ydo01i-232-25 | 25-pin RS-232 interface |
| ydo01i-232-9 | 9-pin RS-232 interface |
| YDC07 | Weighing terminal dust cover |
| YDH02I | Floor-mounted support arm |
| YDH01I | Weighing terminal wall mounting bracket |



Weight sets

| Nominal value | Class | Material | Standard sizes | Order No. with DKD calibration certificate |
|---------------|-------|----------|---|---|
| 1 mg – 500 mg | E2 | Al/Ns | 1 mg, 2×2 mg, 5 mg 10 mg, 2×20 mg, 50 mg 100 mg, 2×200 mg, 500 mg | YCS011-252-AC-02 |
| 1 g – 1 kg | E2 | Steel | 1 g, 2×2 g, 5 g, 10 g, 2×20 g, 50 g, 100 g, 2×200 g, 500 g, 1 kg | YCS31-612-AC-02 |
| 1 g – 1 kg | F1 | Steel | 1 g, 2×2 g, 5 g, 10 g, 2×20 g, 50 g, 100 g, 2×200 g, 500 g, 1 kg | YCS31-613-AC-02 |
| 1 g – 1 kg | F2 | Steel | 1 g, 2×2 g, 5 g, 10 g, 2×20 g, 50 g, 100 g, 2×200 g, 500 g, 1 kg | YCS31-614-AC-02 |
| 1 g – 5 kg | M1 | Brass | 1 g, 2×2 g, 5 g, 10 g, 2×20 g, 50 g, 100 g, 2×200 g, 500 g, 1 kg, 2×2 kg, 5 kg | YCS31-655-AC-02 |

Individual units of weight

| Nominal value | Class | Material | Order No. | Order No. with DKD calibration certificate |
|---------------|-------|----------|--------------|---|
| 50 g | E2 | Steel | YCW452-AC-00 | YCW452-AC-02 |
| 100 g | E2 | Steel | YCW512-AC-00 | YCW512-AC-02 |
| 200 g | E2 | Steel | YCW522-AC-00 | YCW522-AC-02 |
| 50 g | F1 | Steel | YCW453-AC-00 | YCW453-AC-02 |
| 100 g | F1 | Steel | YCW513-AC-00 | YCW413-AC-02 |
| 200 g | F1 | Steel | YCW523-AC-00 | YCW523-AC-02 |
| 1 Kg | F1 | Steel | YCW613-AC-00 | YCW613-AC-02 |
| 2 Kg | F1 | Steel | YCW623-AC-00 | YCW623-AC-02 |
| 5 Kg | F1 | Steel | YCW653-AC-00 | YCW653-AC-02 |
| 1 Kg | F2 | Steel | YCW614-AC-00 | YCW614-AC-02 |
| 2 Kg | F2 | Steel | YCW624-AC-00 | YCW624-AC-02 |
| 5 kg | F2 | Steel | YCW654-AC-00 | YCW654-AC-02 |
| 10 Kg | F2 | Steel | YCW714-AC-00 | YCW714-AC-02 |
| 50 g | M1 | Brass | YCW455-AC-00 | YCW455-AC-02 |
| 100 g | M1 | Brass | YCW515-AC-00 | YCW515-AC-02 |
| 200 g | M1 | Brass | YCW525-AC-00 | YCW525-AC-02 |
| 500 g | M1 | Brass | YCW555-AC-00 | YCW555-AC-02 |
| 1 Kg | M1 | Brass | YCW615-AC-00 | YCW615-AC-02 |
| 2 Kg | M1 | Brass | YCW625-AC-00 | YCW625-AC-02 |
| 5 Kg | M1 | Brass | YCW655-AC-00 | YCW655-AC-02 |
| 10 Kg | M1 | Brass | YCW715-AC-00 | YCW715-AC-02 |

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