

Acura[®] *electro*
your electronic choice

electronic micropipettes



Latest upgrade of a successful line making electronic pipetting more versatile, simpler and safer than ever.

The Acura[®] *electro* features:

- Optimal ergonomics, light weight
- Easy, intuitive, self-teaching programme
- Large display, reversible right / left reading
- Swift-interchange battery pack
- Fast charge, long working autonomy
- Adjustable tip ejector* fitting most tips
- Pipetting cycle counter
- Interchangeable volumetric modules

* Socorex patented



The Acura[®] *electro* models

926XS **936** **956**
micro macro multi

SOCOREX
SWISS

Acura® *electro*

your electronic choice



► Natural ergonomics

The Acura® *electro* offers shape, balance and working ergonomics resembling those of a manual instrument. But comfort is so greatly improved that pipetting and result consistency are just outstanding.



► Unique "right or left" display reading

Display converts instantly to right or left side reading. All information clearly presented and visible at a glance during programming, pipetting and calibration steps.



► Variable working speed

Located on the front side, speed selector allows swift change even during the pipetting process. In addition, slow speed access at any time by gentle touch of start button.



► Long working autonomy

NiMH battery pack exchangeable right-away. Fast battery charging (< 1.5 hours) and extended working autonomy (> 3000 consecutive pipetting cycles). Battery charge level clearly visible on display. Automatic energy saving stand-by when unused.

Microprocessor-controlled instrument line featuring intuitive software avoiding any complicated programming steps. No particular skills are required to get quick access to six working modes and many volumes to select from. Unsurpassed metrological performance and stability.

Micropipettes

- Reduced shaft length and conical end improve driveability and access to microtubes and microplates
- Optional longer volumetric modules
- Simple conversion by user at any time

Macropipettes

- Interchangeable nozzle protection filter
- Adapters for Pasteur pipette and straw tips
- Outstanding accuracy and precision

926XS micro



0.1 - 2 μ L
0.5 - 10 μ L
1 - 20 μ L
2.5 - 50 μ L
5 - 100 μ L
10 - 200 μ L
50 - 1000 μ L

936 macro



0.1 - 2 mL
0.25 - 5 mL
0.5 - 10 mL



Pipette charging stand

Stand allows charging and storing up to three electronic pipettes or battery packs simultaneously. Each position is fitted with a red/green charging LED. One stand supplied with every initial package.



ENERGY STAR®
qualified power
supply for a better
environment

Battery charging rack

Space saving stand holds up to three battery packs simultaneously. The ideal charging and storage accessory for spare batteries, available at any time.

Multichannel pipettes

- Large selection of 8- and 12-channel models
- Light weight and perfect hand fitting
- Sequential tip ejection
- Also fit any single channel volumetric module

956
multi



0.5 - 10 µL
2.5 - 50 µL
10 - 200 µL
20 - 350 µL

Performance

| Volume | Division | Inaccuracy (E%) | | | Imprecision (CV%) | | | Tip style |
|---|----------|-------------------------|-----------|-----------|-----------------------|-----------|-----------|-------------|
| | | Min. vol. | Mid. vol. | Max. vol. | Min. vol. | Mid. vol. | Max. vol. | |
| Micropipettes Acura® electro 926XS | | | | | | | | |
| 0.1 - 2 µL | 0.01 µL | < ± 2.5 % ¹⁾ | < ± 1.2 % | < ± 0.9 % | < 2.5 % ¹⁾ | < 1.5 % | < 0.8 % | Ultra 10 µL |
| 0.5 - 10 µL | 0.05 µL | < ± 1.2 % ²⁾ | < ± 0.8 % | < ± 0.6 % | < 1.5 % ²⁾ | < 0.7 % | < 0.35 % | Ultra 10 µL |
| 0.5 - 10 µL | 0.05 µL | < ± 1.2 % ²⁾ | < ± 0.8 % | < ± 0.6 % | < 1.7 % ²⁾ | < 0.8 % | < 0.4 % | 200 µL |
| 1 - 20 µL | 0.1 µL | < ± 1.2 % ²⁾ | < ± 0.6 % | < ± 0.5 % | < 1.2 % ²⁾ | < 0.4 % | < 0.3 % | 200 µL |
| 2.5 - 50 µL | 0.25 µL | < ± 1.0 % ²⁾ | < ± 0.6 % | < ± 0.5 % | < 0.7 % ²⁾ | < 0.3 % | < 0.25 % | 200 µL |
| 5 - 100 µL | 0.5 µL | < ± 1.0 % ²⁾ | < ± 0.6 % | < ± 0.5 % | < 0.7 % ²⁾ | < 0.3 % | < 0.2 % | 200 µL |
| 10 - 200 µL | 1.0 µL | < ± 1.0 % ²⁾ | < ± 0.6 % | < ± 0.4 % | < 0.6 % ²⁾ | < 0.2 % | < 0.15 % | 200 µL |
| 50 - 1000 µL | 5.0 µL | < ± 0.8 % ²⁾ | < ± 0.5 % | < ± 0.4 % | < 0.4 % ²⁾ | < 0.15 % | < 0.1 % | 1000 µL |
| Macropipettes Acura® electro 936 | | | | | | | | |
| 0.1 - 2 mL | 0.01 mL | < ± 1.0 % | < ± 0.5 % | < ± 0.5 % | < 0.6 % ²⁾ | < 0.3 % | < 0.15 % | 2 mL |
| 0.25 - 5 mL | 0.05 mL | < ± 1.2 % ²⁾ | < ± 0.8 % | < ± 0.5 % | < 0.6 % ²⁾ | < 0.3 % | < 0.15 % | 5 mL |
| 0.5 - 10 mL | 0.05 mL | < ± 1.0 % ²⁾ | < ± 0.7 % | < ± 0.5 % | < 0.5 % ²⁾ | < 0.2 % | < 0.15 % | 10 mL |
| Multichannel pipettes Acura® electro 956 | | | | | | | | |
| 0.5 - 10 µL | 0.05 µL | < ± 3.5 % ³⁾ | < ± 1.5 % | < ± 1.0 % | < 3.0 % ³⁾ | < 0.9 % | < 0.7 % | Ultra 10 µL |
| 2.5 - 50 µL | 0.25 µL | < ± 1.0 % ²⁾ | < ± 0.9 % | < ± 0.8 % | < 1.0 % ²⁾ | < 0.6 % | < 0.4 % | 200 µL |
| 10 - 200 µL | 1.0 µL | < ± 0.9 % ²⁾ | < ± 0.7 % | < ± 0.6 % | < 0.6 % ²⁾ | < 0.4 % | < 0.25 % | 200 µL |
| 20 - 350 µL | 5.0 µL | < ± 1.0 % ³⁾ | < ± 0.8 % | < ± 0.6 % | < 0.6 % ³⁾ | < 0.4 % | < 0.25 % | 350 µL |

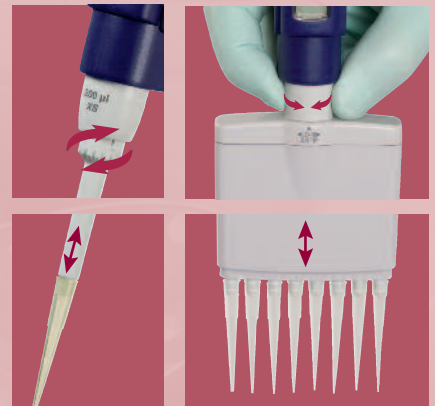
Performance values obtained in Forward mode with bi-dist. water at constant temperature (± 0.5°C) comprised between 20 and 25°C in accordance with ISO 8655. Performance measured at:

¹⁾ 0.5 µL, ²⁾ 10% of nominal volume, ³⁾ 40 µL.

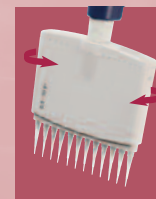


▶ Tip ejection - easier than ever

Maximal efficiency obtained with a large surface, ergonomically located ejector button. The patented shaft height adjustment system called Justip™ (4 mm span) - controlled by efficient click-stops - allows a wide selection of tips to tightly fit the nozzle.



The multichannel bowed shape ejector head permits effortless, sequential tip ejection.



▶ Optimal working position

360° rotation of multichannel volumetric modules allows selection of the best working position.




















▶ Pipetting cycle counter

A simple double click gives access to the number of pipetting cycles performed since last zeroing.

Qualitips® pipette tips

These superior pipette tips cover a range between 0.1 µL and 10 mL. All models autoclavable. Optimal tightness fitting on Socorex pipettes and broad compatibility with other brands.

| Description | Volume | Racks | Cat. No. | Bags | Cat. No. | Length | |
|-------------------------|---------|----------------|------------|--------------|-----------|----------|---|
| Natural ultra-microtip | 10 µL | 10 x 96/rack | 309.0010R | 1 x 1000/bag | 309.0010B | 31.0 mm |  |
| Natural gel loading tip | 10 µL | 4 x 204/rack | 302.0010GR | | | 70.9 mm |  |
| Natural microtip | 10 µL | 10 x 96/rack | 302.0020R | 1 x 1000/bag | 302.0020B | 42.3 mm |  |
| Natural universal tip | 200 µL | | | 2 x 500/bag | 307.0200B | 49.4 mm |  |
| Yellow universal tip | 200 µL | 10 x 96/rack | 327.0200R | 2 x 500/bag | 327.0200B | |  |
| Natural tip | 200 µL | 10 x 96/rack | 308.0200R | 1 x 1000/bag | 308.0200B | 51.1 mm |  |
| Natural gel loading tip | 200 µL | 4 x 204/rack | 308.0200GR | | | 69.0 mm |  |
| Natural tip | 200 µL | 10 x 96/rack | 309.0200R | 2 x 500/bag | 309.0200B | 49.7 mm |  |
| Yellow tip | 200 µL | 10 x 96/rack | 329.0200R | 2 x 500/bag | 329.0200B | |  |
| Natural tip | 350 µL | 10 x 96/rack | 308.0350R | 1 x 1000/bag | 308.0350B | 58.8 mm |  |
| Natural universal tip | 1000 µL | 10 x 60/rack | 307.1000R | 4 x 250/bag | 307.1000B | 79.0 mm |  |
| Blue tip | 1000 µL | 10 x 60/rack | 318.1000R | 4 x 250/bag | 318.1000B | 69.5 mm |  |
| Natural tip | 1000 µL | 10 x 60/rack | 309.1000R | 4 x 250/bag | 309.1000B | 72.0 mm |  |
| Blue tip | 1000 µL | 10 x 60/rack | 319.1000R | 4 x 250/bag | 319.1000B | |  |
| Natural macrotip | 2 mL | | | 2 x 250/bag | 312.02 | 115.5 mm |  |
| Natural macrotip | 5 mL | 2 x 50/rack | 312.05R | 2 x 250/bag | 312.05B | 123.2 mm |  |
| Natural macrotip | 10 mL | 4 x rack alone | 312.10ER | 3 x 100/bag | 312.10 | 150.0 mm |  |

Qualitips® with filter

Efficient protection against aerosols. Include high-density PE filter for complete, uncontaminated sample retrieval. Certified DNase and RNase free. Sterilized tips are guaranteed pyrogen free.

| Description | Volume | Racks | Cat. No. | Bags | Cat. No. | Length | |
|----------------------------|---------|---------------|-------------|--------------|-------------|---------|---|
| Sterilized ultra-microtip | 10 µL | 10 x 96/rack | 309.0010FR | | | 31.0 mm |  |
| Sterilized microtip | 10 µL | 10 x 100/rack | 302.0010FR | | | 45.6 mm |  |
| Autoclavable microtip | 10 µL | | | 1 x 1000/bag | 302.0010AFB | |  |
| Sterilized tip | 20 µL | 10 x 96/rack | 308.0020FR | 5 x 100/bag | 308.0020FS | 51.0 mm |  |
| Sterilized gel loading tip | 20 µL | 10 x 96/rack | 308.0020GFR | | | 69.0 mm |  |
| Sterilized tip | 100 µL | 4 x 204/rack | 308.0100FR | | | 54.1 mm |  |
| Sterilized gel loading tip | 100 µL | 10 x 96/rack | 308.0100GFR | | | 69.0 mm |  |
| Sterilized extended tip | 200 µL | 4 x 204/rack | 308.0200LFR | 5 x 100/bag | 308.0200LFS | 90.9 mm |  |
| Sterilized tip | 300 µL | 4 x 204/rack | 308.0300FR | | | 58.8 mm |  |
| Autoclavable tip | 300 µL | | | 1 x 1000/bag | 308.0300AFB | |  |
| Sterilized tip | 1000 µL | 10 x 96/rack | 309.1000FR | 5 x 100/bag | 309.1000FS | 88.6 mm |  |
| Autoclavable tip | 1000 µL | | | 1 x 1000/bag | 309.1000AFB | |  |

B = bag, F = filter, G = gel loading, L = long, R = rack, S = single wrapped, A = autoclavable

All-purpose reservoirs

Well adapted for multichannel pipettes, the reagent reservoirs come in various shapes and configurations at economical costs.

| Material | Volume | Style | Lid | Sterilized | Packaging | Cat. No. |
|----------|--------|------------|------------|------------|------------|----------|
| PP | 75 mL | V-shaped | No | No | 20/pack | 330.01 |
| PP | 125 mL | V-shaped | Hinged lid | No | 20/pack | 330.01L |
| PS | 48 mL | 8-channel | No | No | 30/pack | 330.08 |
| PS | 48 mL | 8-channel | No | No | 100/pack | 330.08XL |
| PS | 48 mL | 12-channel | No | No | 30/pack | 330.12 |
| PS | 48 mL | 12-channel | No | No | 100/pack | 330.12XL |
| PS | 48 mL | 8-channel | No | Yes | 10x 1/pack | 330.08.9 |
| PS | 48 mL | 12-channel | No | Yes | 10x 1/pack | 330.12.9 |

Nozzle protection filter

| Description | Pack | Cat. No. |
|-----------------------|----------|----------|
| For 2 and 5 mL models | 250 / pk | 322.05 |
| For 10 mL model | 100 / pk | 322.10 |

Pasteur pipette adapters

| Description | Pack | Cat. No. |
|----------------|--------|-----------|
| For 2 mL model | 1 / pk | 1.835.631 |
| For 5 mL model | 1 / pk | 1.835.633 |



Great built-in working flexibility

Surf through mode selection by pressing a single button.



- **Forward mode**
Aspiration and pipetting of set volume. Suitable for all applications.



- **Reverse mode**
Aspiration in excess, followed by dosing of set volume. Enhances reproducibility below 20 μL . Especially recommended for viscous and foaming liquids.



- **Stepper mode**
Tip filling and step-by-step distribution. Best suited to aliquot samples.



- **Dilution mode**
Aspiration of 2 or 3 different volumes for restitution in one shot. An easy way to dilute samples.



- **Tactile mode**
"Start and stop" liquid measurement, titration and gel loading by simple touch of activation button.



- **Mixing**
"Up and down" liquid flow in the tip / vial.

Interchangeable volumetric modules

One control unit fits a choice of 27 volumetric assemblies available separately. This greatly extends working possibilities and makes electronic pipetting affordable to all budgets. Disassembling and re-assembling without any tool contributes towards maximal flexibility.

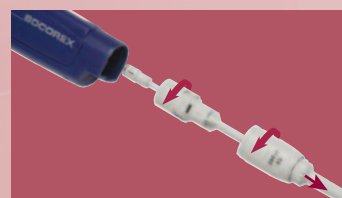


Calibration specificities of extra modules - as set by factory QC or by pipette owner - are retained in instrument memory.



► Initial package

Recommended on first purchase of an Acura® *electro*. Each initial package contains one electronic pipette, QC certificate and operating instructions, charging stand, power supply, additional battery pack, Qualitips® pipette tips samples. Thereafter, additional pipettes can be purchased alone and charged on existing stand.



► Time efficient maintenance

Pipette construction limits maintenance to a minimum - no tool required to remove volumetric module. The pipetting cycle counter facilitates maintenance monitoring. Whenever sterilisation is needed, volumetric modules can be removed and autoclaved at 121°C / 250°F.



► Calibration

Control software gives immediate access to calibration menu. Performance check possible over two or three independent volumes (V_{min} , V_{mid} and V_{max}). New settings entered directly from the keyboard. Error message warns of any inaccurate plunger movement.



► Key beep

Sound can be turned on/off anytime.

electronic micropipettes

Ordering information - Instrument

Initial package includes pipette, charging stand and accessories. Additional pipettes (alone) supplied with individual QC certificate, Qualitips® pipette tip samples and operating instructions.

| Volume | Division | Tip style | Cat. No. Initial package* | Cat. No. Pipette alone |
|---|----------|-------------|---------------------------|------------------------|
| Acura® electro 926XS micropipettes | | | | |
| 0.1 - 2 µL | 0.01 µL | Ultra 10 µL | 926.0002E | 926.0002 |
| 0.5 - 10 µL | 0.05 µL | Ultra 10 µL | 926.0010E | 926.0010 |
| 0.5 - 10 µL | 0.05 µL | 200 µL | 926.0010YE | 926.0010Y |
| 1 - 20 µL | 0.1 µL | 200 µL | 926.0020E | 926.0020 |
| 2.5 - 50 µL | 0.25 µL | 200 µL | 926.0050E | 926.0050 |
| 5 - 100 µL | 0.5 µL | 200 µL | 926.0100E | 926.0100 |
| 10 - 200 µL | 1.0 µL | 200 µL | 926.0200E | 926.0200 |
| 50 - 1000 µL | 5.0 µL | 1000 µL | 926.1000E | 926.1000 |
| Acura® electro 936 macropipettes | | | | |
| 0.1 - 2 mL | 0.01 mL | 2 mL | 936.02E | 936.02 |
| 0.25 - 5 mL | 0.05 mL | 5 mL | 936.05E | 936.05 |
| 0.5 - 10 mL | 0.05 mL | 10 mL | 936.10E | 936.10 |
| Acura® electro 956 8-channel pipettes | | | | |
| 0.5 - 10 µL | 0.05 µL | Ultra 10 µL | 956.08.010E | 956.08.010 |
| 2.5 - 50 µL | 0.25 µL | 200 µL | 956.08.050E | 956.08.050 |
| 10 - 200 µL | 1.0 µL | 200 µL | 956.08.200E | 956.08.200 |
| 20 - 350 µL | 5.0 µL | 350 µL | 956.08.350E | 956.08.350 |
| Acura® electro 956 12-channel pipettes | | | | |
| 0.5 - 10 µL | 0.05 µL | Ultra 10 µL | 956.12.010E | 956.12.010 |
| 2.5 - 50 µL | 0.25 µL | 200 µL | 956.12.050E | 956.12.050 |
| 10 - 200 µL | 1.0 µL | 200 µL | 956.12.200E | 956.12.200 |
| 20 - 350 µL | 5.0 µL | 350 µL | 956.12.350E | 956.12.350 |

*Replace E by country codes if plug other than Europe type needed: G = UK, U = USA-Japan, A = Australia-NZ

Ordering information - volumetric modules and accessories

| Volume range | Cat. No. | Volume range | Cat. No. | Volume range | Cat. No. |
|------------------------------------|-------------|------------------------------------|-----------|------------------------------------|------------|
| Single channel microvolumes | | Single channel microvolumes | | Single channel macrovolumes | |
| Reduced shaft length | | Regular shaft length | | | |
| 0.1 - 2 µL | 800.0002XS | 0.1 - 2 µL | 800.0002 | 0.1 - 2 mL | 800.2000 |
| 0.5 - 10 µL | 800.0010XS | 0.5 - 10 µL | 800.0010 | 0.25 - 5 mL | 800.5000 |
| 0.5 - 10 µL* | 800.0010YXS | 0.5 - 10 µL* | 800.0010Y | 0.5 - 10 mL | 800.10000 |
| 1 - 20 µL | 800.0020XS | 1 - 20 µL | 800.0020 | 8-channel microvolumes | |
| 2.5 - 50 µL | 800.0050XS | 2.5 - 50 µL | 800.0050 | 0.5 - 10 µL | 800.08.010 |
| 5 - 100 µL | 800.0100XS | 5 - 100 µL | 800.0100 | 2.5 - 50 µL | 800.08.050 |
| 10 - 200 µL | 800.0200XS | 10 - 200 µL | 800.0200 | 10 - 200 µL | 800.08.200 |
| 50 - 1000 µL | 800.1000XS | 50 - 1000 µL | 800.1000 | 20 - 350 µL | 800.08.350 |
| | | | | 12-channel microvolumes | |
| | | | | 0.5 - 10 µL | 800.12.010 |
| | | | | 2.5 - 50 µL | 800.12.050 |
| | | | | 10 - 200 µL | 800.12.200 |
| | | | | 20 - 350 µL | 800.12.350 |

*For 200 µL tip style

| Description | Packaging | Cat. No. |
|-------------------------------------|-----------|------------|
| Charging units, 3 positions | | |
| Stand for pipettes or battery packs | 1 / pk | 320.903.48 |
| Stand for power handles only | 1 / pk | 320.913.48 |
| Spare battery, blue colour | | |
| NiMH, 4.8V | 1 / pk | 900.920.48 |
| NiMH, 4.8V | 2 / pk | 900.922.48 |

| Description | Packaging | Cat. No. |
|-------------------------------|-----------|-------------|
| Power supply, 100-240V | | |
| Europe style plug | 1 / pk | 900.901.48E |
| UK style plug | 1 / pk | 900.901.48G |
| USA-Japan style plug | 1 / pk | 900.901.48U |
| Australia - NZ style plug | 1 / pk | 900.901.48A |

Your local distributor



Standards and compliance

The Acura® *electro* pipettes are designed to operate under national and international standards such as EN ISO 8655, GMP, GLP, NCCLS. They conform to:

- IVD 98/79 EEC (in vitro diagnostic medical devices)
- ED 89/336 EEC, 91/263 EEC, 92/31 EEC, 93/68 EEC, FCC-CFR47, part 15 (electromagnetic compatibility)
- ED 73/23 EEC, 93/68EEC, IEC 61010-1 (electrical safety)
- ED 2011/65/EC Restriction of Hazardous Substances (RoHS)



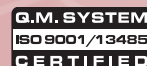
QC, safety and warranty

Each instrument bears its own serial number and passes strict performance control attested by an individual QC certificate. Refer to package inserts for safety precautions, operating instructions and warranty terms.



Products and specifications are subject to change without prior notice.

US Patent 6,833,114 B1,
EP Patent 1 185 368 B1,
U.S. Patent 8,900,526 B2
www.socorex.com/patents-en.html



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