

# Acura® manual

your expectations – our tradition

## digital reading micropipettes



The new Acura® *manual* pipette line was built with the same attention that made the brand famous over several instrument generations.

Introducing a slick design with easy volume reading, it also features a number of innovations making high-performance pipetting safe and agreeable.

#### The Acura® line features:

- Digital display window for permanent volume visibility
- Exceptional, user-friendly ergonomics
- Lightweight
- Ultra-soft, effortless activation
- Innovative tip ejection concept
- *Swift-set* user calibration system
- Entirely autoclavable at 121°C



The Acura® *manual* models

**815**  
fixed

**825**  
micro

**835**  
macro

**855**  
multi

 **SOCOREX**  
SWISS



### ► Most comfortable pipetting

Ergonomic shape, lightweight and ultra-soft plunger travel are key elements of the new Acura® family.



### ► Smart and reliable volume adjustment

State-of-the-art micrometric volume setting is performed smoothly and precisely by turning push button. Finely machined click-stops and free rotating cap prevent any unwanted volume alteration.

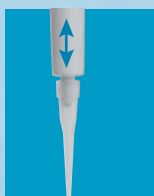
### ► Digital display always visible at a glance

Located on the front of the instrument, the display window allows set volume to be visible at all times during pipetting. A comforting reassurance for the user.



### ► Tip ejection – easier than ever

Most ergonomically positioned, the large surface, soft padded ejector button provides for low-pressure activation. In addition to ease of tip ejection, the 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.



## Engineered ergonomics and design

The challenge for our engineers in combining high-tech material with ergonomic design was far above average, and they succeeded excellently. Whether in research or routine applications, the result is an instrument designed and built with the users in mind. The precision pipettes offer much more than superior performance. Enjoy exceptional convenience, comfort, safety and sturdiness, enjoy your Acura®.

**815**  
fixed



1 µL to 10 mL

### Acura® 815

#### Fixed volume – unlimited

The air displacement fixed volume pipettes come with all good features of the new instrument generation. These include slim ergonomic design, ultra-soft plunger stroke, autoclavability, and much more. Available in a wide selection of 1, 5 and 10 µL ultra-micro volumes, micro sizes from 20 to 1000 µL, and macro volumes models of 2 mL, 2.5 mL, 5 mL and 10 mL.

**825**  
micro



0.1 – 2 µL  
0.5 – 10 µL

1 – 10 µL  
2 – 20 µL  
5 – 50 µL

## Performance

Volume µL	Inaccuracy (E %)	Imprecision (CV %)	Volume µL	Inaccuracy (E %)	Imprecision (CV %)
1	<+/- 2.0 %	< 2.0 %	250	<+/- 0.7 %	< 0.4 %
5	<+/- 1.4 %	< 1.0 %	300	<+/- 0.7 %	< 0.4 %
10	<+/- 0.7 %	< 0.7 %	400	<+/- 0.7 %	< 0.3 %
15	<+/- 0.7 %	< 0.5 %	500	<+/- 0.7 %	< 0.3 %
20	<+/- 0.7 %	< 0.5 %	600	<+/- 0.7 %	< 0.3 %
25	<+/- 0.7 %	< 0.6 %	700	<+/- 0.7 %	< 0.2 %
30	<+/- 0.7 %	< 0.6 %	750	<+/- 0.7 %	< 0.2 %
40	<+/- 0.7 %	< 0.5 %	800	<+/- 0.7 %	< 0.2 %
50	<+/- 0.7 %	< 0.5 %	900	<+/- 0.7 %	< 0.2 %
60	<+/- 0.7 %	< 0.6 %	1000	<+/- 0.6 %	< 0.2 %
70	<+/- 0.7 %	< 0.6 %			
75	<+/- 0.7 %	< 0.5 %			
80	<+/- 0.7 %	< 0.4 %			
90	<+/- 0.7 %	< 0.3 %			
100	<+/- 0.7 %	< 0.3 %			
120	<+/- 0.7 %	< 0.4 %			
150	<+/- 0.7 %	< 0.3 %			
200	<+/- 0.7 %	< 0.4 %			

Volume mL	Inaccuracy (E %)	Imprecision (CV %)
2	<+/- 0.8 %	< 0.5 %
2.5	<+/- 0.8 %	< 0.5 %
5	<+/- 0.7 %	< 0.4 %
10	<+/- 0.5 %	< 0.2 %



### Workstation 337

Stable, sturdy universal pipette workstation 337 for 7 micropipettes of most brands. Available in four attractive colours.

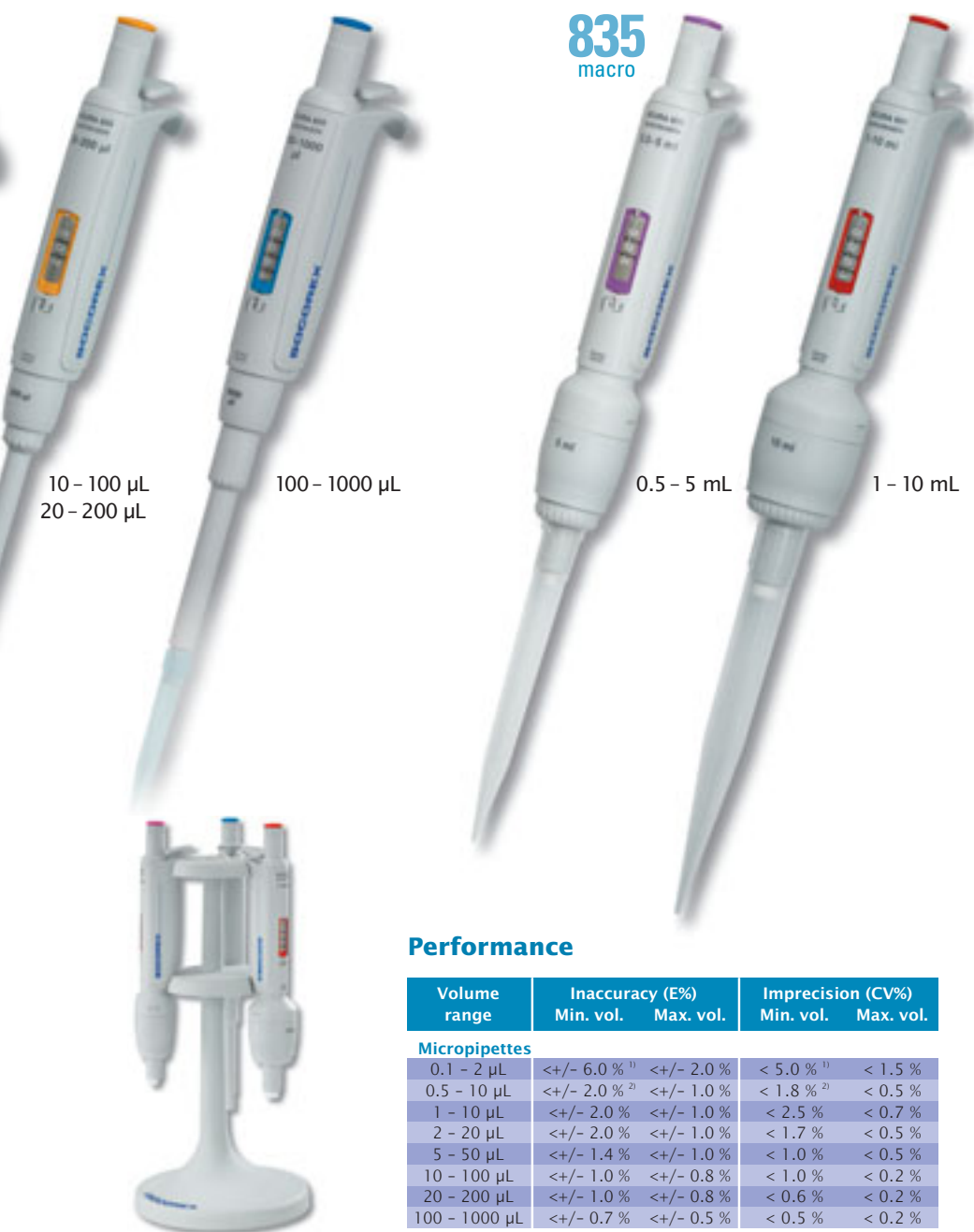


## Acura® 825/835

### Adjustable volume micro and macropipettes

Equipped with a precision digital display, the new line is continuously adjustable down to a very fine volume resolution. Single-handed volume setting is easy when the other hand is busy. Measuring unknown volumes by aspiration is also possible with a high degree of accuracy. Click-stops, together with freely rotating *smartie* plunger button cap ensure setting stability while pipetting.

A total of 8 micropipettes covering the range from 0.1 to 1000 µL and 2 macropipettes ranging 0.5 – 5 mL and 1 – 10 mL are available.



10 – 100 µL  
20 – 200 µL

100 – 1000 µL

**835**  
macro

0.5 – 5 mL

1 – 10 mL

### Performance

Volume range	Inaccuracy (E%)		Imprecision (CV%)	
	Min. vol.	Max. vol.	Min. vol.	Max. vol.
<b>Micropipettes</b>				
0.1 – 2 µL	<+/- 6.0 % <sup>1)</sup>	<+/- 2.0 %	< 5.0 % <sup>1)</sup>	< 1.5 %
0.5 – 10 µL	<+/- 2.0 % <sup>2)</sup>	<+/- 1.0 %	< 1.8 % <sup>2)</sup>	< 0.5 %
1 – 10 µL	<+/- 2.0 %	<+/- 1.0 %	< 2.5 %	< 0.7 %
2 – 20 µL	<+/- 2.0 %	<+/- 1.0 %	< 1.7 %	< 0.5 %
5 – 50 µL	<+/- 1.4 %	<+/- 1.0 %	< 1.0 %	< 0.5 %
10 – 100 µL	<+/- 1.0 %	<+/- 0.8 %	< 1.0 %	< 0.2 %
20 – 200 µL	<+/- 1.0 %	<+/- 0.8 %	< 0.6 %	< 0.2 %
100 – 1000 µL	<+/- 0.7 %	<+/- 0.5 %	< 0.5 %	< 0.2 %
<b>Macropipettes</b>				
0.5 – 5 mL	<+/- 1.0 %	<+/- 0.7 %	< 0.6 %	< 0.4 %
1 – 10 mL	<+/- 0.8 %	<+/- 0.5 %	< 0.4 %	< 0.2 %

<sup>1)</sup> At 0.5 µL. Indicative data at 0.2 µL: E <+/- 12 %, CV < 8 %

<sup>2)</sup> At 1.0 µL. Indicative data at 0.5 µL: E <+/- 5 %, CV < 3 %

### Workstation 340

Convenient workstation for 3 Calibra® or Acura®, multi- or single-channel pipettes.



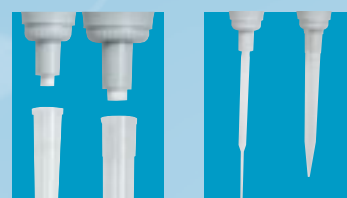
### ► Swift-set calibration

The *swift-set* user calibration system – with integrated key and locking mechanism – makes tedious procedures a thing of the past. Easy and precise, it is in full compliance with international standards and recommendations.



### ► Colour coding at will

The Acura® pipettes have colour-coded display windows and *smarties* button caps suggesting a selection of suitable tips. Are other colour combination desirable for individual, lab or department identification? Then choose among 14 colours of *smarties*, or pick the *smartie* mix which contains all colours.



### ► Macropipettes – maxi advantages

The 835 models accommodate nozzle filters for added protection against liquid fill and contamination.

Optional adapter-nozzle allows fitting of Pasteur pipettes on 5 mL model, in addition to Polypropylene tips (order accessory separately).

### ► Minimum maintenance/sterilisation

















Shock, heat, chemicals and UV light resistance is provided by carefully selected materials and good construction. Consequently, maintenance requirements are close to non-existent.



Thorough cleaning and sterilisation can be achieved by autoclaving the instrument fully assembled (121°C, 20 minutes).



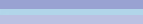




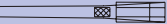






## Qualitips® without filter

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.	
Natural ultra-microtip	10 µL	10 x 96/rack	309.0010R	1 x 1000/bag	309.0010B	
Natural gel loading tip	10 µL	4 x 204/rack	302.0010GR			
Natural microtip	10 µL	10 x 96/rack	302.0020R	1 x 1000/bag	302.0020B	
Natural universal tip	200 µL	10 x 96/rack	307.0200R	2 x 500/bag	307.0200B	
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	
Natural gel loading tip	200 µL	4 x 204/rack	308.0200GR			
Natural tip	200 µL	10 x 96/rack	309.0200R	2 x 500/bag	309.0200B	
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	
Natural universal tip	1000 µL	10 x 60/rack	307.1000R	4 x 250/bag	307.1000B	
Blue tip	1000 µL	10 x 60/rack	318.1000R	4 x 250/bag	318.1000B	
Natural tip	1000 µL	10 x 60/rack	309.1000R	4 x 250/bag	309.1000B	
Blue tip	1000 µL	10 x 60/rack	319.1000R	4 x 250/bag	319.1000B	
Natural macrotip	5 mL	2 x 50/rack	312.05R	2 x 250/bag	312.05B	
Natural macrotip	10mL	4 x rack alone	312.10ER	3 x 100/bag	312.10	

## Qualitips® with filter

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

Description	Volume	Racks	Cat. No.	Bags	Cat. No.	
Sterile ultra-microtip	10 µL	10 x 96/rack	309.0010FR			
Sterile microtip	10 µL	10 x 100/rack	302.0010FR			
Autoclavable microtip	10 µL	10 x 100/rack	302.0010AFR	1 x 1000/bag	302.0010AFB	
Sterile tip	20 µL	10 x 96/rack	308.0020FR	5 x 100/bag	308.0020FS	
Autoclavable tip	20 µL	10 x 96/rack	308.0020AFR			
Sterile gel loading tip	20 µL	4 x 204/rack	308.0020GFR			
Sterile tip	100 µL	10 x 96/rack	308.0100FR			
Autoclavable tip	100 µL	10 x 96/rack	308.0100AFR	1 x 1000/bag	308.0100AFB	
Sterile gel loading tip	100 µL	4 x 204/rack	308.0100GFR			
Sterile extended tip	200 µL	4 x 204/rack	308.0200LFR	5 x 100/bag	308.0200LFS	
Sterile tip	300 µL	10 x 96/rack	308.0300FR			
Autoclavable tip	300 µL	10 x 96/rack	308.0300AFR	1 x 1000/bag	308.0300AFB	
Sterile tip	1000 µL	10 x 100/rack	309.1000FR	5 x 100/bag	309.1000FS	
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



## Acura® 855

### Multichannel micropipettes

The comprehensive Acura® *manual* line offers 8- and 12-channel models with volumes ranging from 0.5 to 350 µL. These multichannel instruments extend pipetting possibilities in microplates and include the same Acura original features such as light weight and effortless activation. Autoclavable fully assembled by 121°C.



**855**  
multi

0.5 - 10 µL  
5 - 50 µL  
40 - 350 µL



### Workstation 340

Convenient workstation for 3 Calibra® or Acura®, multi- or single-channel pipettes.

### Performance

Volume range µL	Inaccuracy (E%)		Imprecision (CV%)	
	Min. vol.	Max. vol.	Min. vol.	Max. vol.
0.5 - 10	<+/- 3.5 % <sup>1)</sup>	<+/- 1.5 %	< 3.0 %	< 1.0 %
5 - 50	<+/- 1.0 %	<+/- 0.8 %	< 1.0 %	< 0.4 %
40 - 350	<+/- 1.0 %	<+/- 0.8 %	< 0.6 %	< 0.3 %

<sup>1)</sup> At 1.0 µL. Indicative data at 0.5 µL: E <+/- 5 %, CV < 3 %



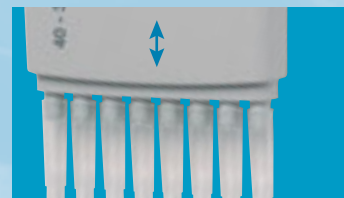
#### ► Optimal working position

In addition to the ergonomic design and perfect hand fitting of the pipette, the multichannel volumetric modules revolves to allow the selection of the best working position.



#### ► Adjustable tip ejector

Position of tip ejector can be adjusted in no time with a 4 mm span to perfectly match to tips used. Particular shape of ejector head adds to effortless, easy sequential tip ejection.



#### ► All purpose reservoirs

Well adapted for multichannel pipettes, the reagent reservoirs offer various shapes in different configurations at economical cost.

## Ordering information – Instruments

### Acura® 815, fixed volume micropipettes

Volume µL	Tip style	Cat. No.	Volume µL	Tip style	Cat. No.	Volume µL	Tip style	Cat. No.
1	10 µL	815.0001	60	200 µL	815.0060	250	1000 µL	815.0250
5	10 µL	815.0005	70	200 µL	815.0070	300	1000 µL	815.0300
10	10 µL	815.0010	75	200 µL	815.0075	400	1000 µL	815.0400
15	200 µL	815.0015	80	200 µL	815.0080	500	1000 µL	815.0500
20	200 µL	815.0020	90	200 µL	815.0090	600	1000 µL	815.0600
25	200 µL	815.0025	100	200 µL	815.0100	700	1000 µL	815.0700
30	200 µL	815.0030	120	200 µL	815.0120	750	1000 µL	815.0750
40	200 µL	815.0040	150	200 µL	815.0150	800	1000 µL	815.0800
50	200 µL	815.0050	200	200 µL	815.0200	900	1000 µL	815.0900
						1000	1000 µL	815.1000

### Acura® 825, adjustable volume micropipettes

Volume µL	Div. µL	Tip style	Cat. No.
0.1 – 2	0.002	10 µL	825.0002
0.5 – 10	0.01	10 µL	825.0010
1 – 10	0.01	200 µL	825.0010Y
2 – 20	0.02	200 µL	825.0020
5 – 50	0.1	200 µL	825.0050
10 – 100	0.1	200 µL	825.0100
20 – 200	0.2	200 µL	825.0200
100 – 1000	1	1000 µL	825.1000

### Acura® 835F, fixed volume macropipettes

Volume mL	Tip style	Cat. No.
2	5 mL	835.F02
2.5	5 mL	835.F02.5
5	5 mL	835.F05
10	10 mL	835.F10

### Acura® 835, adjustable volume macropipettes

Volume mL	Div. mL	Tip style	Cat. No.
0.5 – 5	0.01	5 mL	835.05
1 – 10	0.01	10 mL	835.10

### Acura® 855, multichannel macropipettes

Volume µL	Division µL	Tip style	8-channel/Cat. No.	12-channel/Cat. No.
0.5 – 10	0.01	10 µL	855.08.010	855.12.010
5 – 50	0.1	200 µL	855.08.050	855.12.050
40 – 350	0.4	350 µL	855.08.350	855.12.350

## Ordering information – Accessories

Description	Packaging	Cat. No.
-------------	-----------	----------

### Work station model 340

Fits 3 multi- or single-channel 1 / pack 320.340

### Universal work station model 337

Fits 7 single-channel micropipettes of most brands

Colour	Packaging	Cat. No.
Light grey	1 / pack	320.337G
Ice blue	1 / pack	320.337B
Vanilla yellow	1 / pack	320.337Y
Mint green	1 / pack	320.337M

### Pasteur pipette adapter-nozzle

for model 835, 5 mL 1 / pack 1.835.633

### Reservoirs

Description	Packaging	Cat. No.
Reagent reservoir, 70 mL, PP, autoclavable	20 / pack	330.01
Large reagent reservoir with hinged lid, 175 mL, PP, autoclavable	20 / pack	330.01L
8-channel reservoir, 40 mL, PS, sterile, single wrapped	10 / pack	330.08.9
12-channel reservoir, 40 mL, PS, sterile, single wrapped	10 / pack	330.12.9

## Your local distributor

## Standards and compliance

The Acura® manual pipettes are designed to operate under national and international standards such as EN ISO 8655, DIN 12650, GMP, GLP, NCCLS. The instruments conform to the CE directive IVD 98/79 EEC (in vitro diagnostic medical devices).

## QC and warranty

Performance values are obtained with bi-dist. water at constant temperature ( $\pm 0.5^\circ\text{C}$ ) between 20 and 25°C, in accordance with EN ISO 8655 / DIN 12650.

Each instrument bears its own serial number and passes strict performance control attested by an individual QC certificate. Three year warranty.



**SOCOREX**  
SWISS

SOCOREX ISBA SA  
Champ-Colomb 7, P.O. Box  
1024 Ecublens/Lausanne  
Switzerland  
socorex@socorex.com  
www.socorex.com  
Tel: +41 (0)21 651 6000  
Fax: +41 (0)21 651 6001