

# Acura<sup>®</sup> manual

your expectations – our tradition

new  
**Qualitix<sup>®</sup>**  
tip line

# digital reading micropipettes



Acura<sup>®</sup> manual pipettes are precision instruments combining high-tech materials with exceptional, user friendly ergonomics.

A wide choice of models offers much more than superior performance and makes pipetting safe and comfortable.

#### The Acura<sup>®</sup> manual line features:

- Effortless activation
- Smart and reliable volume adjustment
- Precision digital display visible at all time
- *Justip*<sup>™</sup> adjustable tip ejector fitting most tips
- *Swift-set* user calibration system
- Shock, UV-light and autoclaving resistance
- CE certified IVD 98/79 EEC



The Acura<sup>®</sup> manual models

**825** micro    **826** micro    **XS**

**815** fixed    **835** macro    **855** multi

 **SOCOREX**  
SWISS

# Acura® manual

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## ► Most comfortable pipetting

The line fits everybody's hand with or without glove. Ergonomic shape, light weight and soft plunger travel care for optimal comfort.



## ► Smart and reliable volume adjustment

State-of-the-art micrometric setting is performed smoothly and precisely by turning the 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 the user to comfortably read the set volumes at any time during pipetting. A comforting reassurance for the user.



## ► Acura® manual 825/835 Triopack

Nine different packs up to 10 mL, each containing three adjustable micropipettes, to cover all individual requirements in any research or routine application. Available at attractive budget prices, they match with today's budget constraints.

## Universal micropipettes

The classic Acura® manual 825 is intended for all applications. It brings convenience, comfort, safety and sturdiness. A wise choice for your laboratory.

### 825 micro

0.1 – 2 µL  
0.5 – 10 µL  
1 – 10 µL  
2 – 20 µL  
5 – 50 µL  
10 – 100 µL  
20 – 200 µL  
100 – 1000 µL



## Work station Twister™ universal 336

Rotary stand holds up to six single channel pipettes of most brands. Seven translucent colours to choose from.



## In-line™ universal 337

Space saving stand holds up to seven single channel pipettes of most brands. Anti-slip pads guarantee bench stability. Available in five pastel colours.



### Extra sharp micropipettes

Derived from the Acura® manual 825, the 826 XS line was designed with the research scientists in mind. Shorter, smoother, lighter in weight, the eight models offer key features aiming to excellence in pipetting.

## 826 XS

micro extra sharp

- 0.1 – 2 µL
- 0.5 – 10 µL
- 1 – 10 µL
- 2 – 20 µL
- 5 – 50 µL
- 10 – 100 µL
- 20 – 200 µL
- 100 – 1000 µL



Short shaft



### Narrow conical shaft end

Small diameter offers easy access to microtubes.

### Short shaft

Length reduction greatly enhances precision of hand movement and guarantees superior drivability.

### A must for research scientists

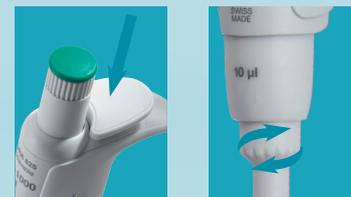
The extra sharp pipette is optimal for any fine applications such as pipetting in microtubes or microplates.

### Performance and weight Acura® manual 825 and 826 XS

Volume	Weight		Inaccuracy (E%)			Imprecision (CV%)		
	825	826	Min. vol.	Mid. vol.	Max. vol.	Min. vol.	Mid. vol.	Max. vol.
0.1 – 2 µL	88 gr	84 gr	<± 6.0 % <sup>1)</sup>	<± 4.0 %	<± 2.0 %	< 5.0 % <sup>1)</sup>	< 3.3 %	< 1.5 %
0.5 – 10 µL	88 gr	84 gr	<± 2.5 % <sup>2)</sup>	<± 1.8 %	<± 1.0 %	< 1.8 % <sup>2)</sup>	< 1.2 %	< 0.5 %
1 – 10 µL	88 gr	85 gr	<± 2.5 %	<± 1.8 %	<± 1.0 %	< 2.5 %	< 1.6 %	< 0.7 %
2 – 20 µL	88 gr	85 gr	<± 2.5 %	<± 1.8 %	<± 1.0 %	< 1.7 %	< 1.0 %	< 0.5 %
5 – 50 µL	90 gr	86 gr	<± 1.5 %	<± 1.3 %	<± 1.0 %	< 1.0 %	< 0.7 %	< 0.4 %
10 – 100 µL	92 gr	87 gr	<± 1.5 %	<± 1.2 %	<± 0.8 %	< 1.0 %	< 0.6 %	< 0.2 %
20 – 200 µL	90 gr	86 gr	<± 1.5 %	<± 1.1 %	<± 0.6 %	< 0.6 %	< 0.4 %	< 0.2 %
100 – 1000 µL	95 gr	88 gr	<± 1.5 %	<± 1.0 %	<± 0.5 %	< 0.5 %	< 0.4 %	< 0.2 %

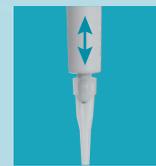
Performance values obtained with bidest. water at constant temperature (± 0.5°C) comprised between 20 and 25°C in accordance with ISO 8655.

<sup>1)</sup> measured at 0.5 µL <sup>2)</sup> measured at 1 µL



### ▶ Tip ejection - easier than ever

Most ergonomically positioned, the large surface, soft padded ejector button ensures 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.



### ▶ Extra smooth activation

Unique tightness lip seal and new springs provide ultra-soft pipetting, reducing hand fatigue while working.

Pipetting		Overshoot	
Start	End	Start	End
≤1.6 N*	≤2.8 N*	≤9.3 N*	≤11.5 N*

\* 1 Newton (N) ~ 0.1 kilogramme force (kgf)

Above forces, measured on a 20 - 200 µL model, are indicative of very limited finger efforts. Yet, the overshoot stop offers a clear tactile indicator.



### ▶ Acura® manual XS 826 TwiXS pack

Six different packs up to 1000 µL, each containing two adjustable micropipettes and a free pipette holder, to cover all individual requirements in any research application. Available at attractive prices, they match with today's budget constraints.



### ► Nozzle protection filter

Macro models accommodate interchangeable nozzle filters for added protection against liquid overflow and barrel contamination.

### ► Pasteur pipette adapter

Optional adapters allow fitting of glass Pasteur pipette on 2 and 5 mL models in addition to Polypropylene tips. The adapters include two O-rings guaranteeing proper holding and tightness of any standard 2 mL Pasteur pipettes (Ø 7 mm).



### ► Smarties caps colour coding at will

Free rotating colour caps protecting against unwanted volume alteration, can be changed for individual, lab or department identifications. Pick among 14 different colours or choose the smartie mix including all of them for unlimited combinations.



### ► Shelf pipette holder 332 for two instruments

Fitting micro, macro and/or multi-channel pipettes, its attractive design accommodates all Acura® and Calibra® instruments. The self-adhesive strip supplied ensures lasting attachment on any surface.

## Fixed volume micro and macropipettes

They show most stable performance and provide consistent results for any analytical or routine tests.

No risk of erroneous volume setting.

Available in a selection of micro sizes from 1 to 1000 µL and macro volumes models of 2, 2.5, 5 and 10 mL.

# 815 / 835F

fixed

1 µL to 10 mL



## Multi and single channel pipette work station 340

Innovative design fits three Calibra® and Acura® models. Easy reach of each instrument. Heavy bottom plate and anti-slip pads guarantee high stability.

## Performance and weight Acura® manual 815 and 835F

Volume	Weight	Inaccuracy (E%)	Imprecision (CV%)	Volume	Weight	Inaccuracy (E%)	Imprecision (CV%)
<b>Acura® manual 815</b>							
1 µL	85 gr	<± 2.0 %	< 1.0 %	150 µL	89 gr	<± 0.7 %	< 0.3 %
5 µL	85 gr	<± 1.4 %	< 1.0 %	200 µL	89 gr	<± 0.7 %	< 0.3 %
10 µL	85 gr	<± 0.7 %	< 0.7 %	250 µL	93 gr	<± 0.7 %	< 0.4 %
10Y µL	85 gr	<± 0.7 %	< 0.8 %	300 µL	93 gr	<± 0.7 %	< 0.4 %
15 µL	85 gr	<± 0.7 %	< 0.5 %	400 µL	93 gr	<± 0.7 %	< 0.3 %
20 µL	85 gr	<± 0.7 %	< 0.5 %	500 µL	93 gr	<± 0.7 %	< 0.3 %
25 µL	89 gr	<± 0.7 %	< 0.6 %	600 µL	93 gr	<± 0.7 %	< 0.3 %
30 µL	89 gr	<± 0.7 %	< 0.6 %	700 µL	93 gr	<± 0.7 %	< 0.2 %
32 µL	89 gr	<± 0.7 %	< 0.6 %	750 µL	93 gr	<± 0.7 %	< 0.2 %
40 µL	89 gr	<± 0.7 %	< 0.5 %	800 µL	93 gr	<± 0.7 %	< 0.2 %
50 µL	89 gr	<± 0.7 %	< 0.4 %	900 µL	93 gr	<± 0.7 %	< 0.2 %
60 µL	89 gr	<± 0.7 %	< 0.5 %	1000 µL	93 gr	<± 0.6 %	< 0.2 %
70 µL	89 gr	<± 0.7 %	< 0.4 %	<b>Acura® manual 835F</b>			
75 µL	89 gr	<± 0.7 %	< 0.4 %	2 mL	105 gr	<± 0.5 %	< 0.2 %
80 µL	89 gr	<± 0.7 %	< 0.35 %	2.5 mL	111 gr	<± 0.8 %	< 0.5 %
90 µL	89 gr	<± 0.7 %	< 0.3 %	5 mL	111 gr	<± 0.6 %	< 0.3 %
100 µL	89 gr	<± 0.7 %	< 0.3 %	10 mL	120 gr	<± 0.5 %	< 0.2 %
120 µL	89 gr	<± 0.7 %	< 0.4 %				

Performance values obtained with bidest. water at constant temperature (± 0.5°C) comprised between 20 and 25°C in accordance with ISO 8655.

## Macropipettes

Optimal for in- and outdoor environmental analysis, clinical chemistry and cell culture. They offer superior performance and make pipetting safer than ever.

# 835

macro

0.2 - 2 mL  
0.5 - 5 mL  
1 - 10 mL



## Multichannel pipettes

Instruments extend pipetting possibilities in 96-well microplates and guarantee outstanding performance and results.



# 855

multi

0.5 - 10 µL  
5 - 50 µL  
10 - 100 µL  
20 - 200 µL  
40 - 350 µL



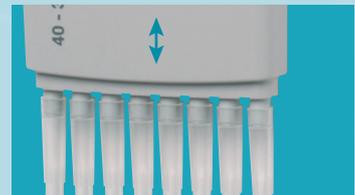
### ► Optimal working position

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



### ► Adjustable tip ejector

Height of tip ejector can be adjusted in no time within a 4 mm span to perfectly match to tip used. Bowed shape of ejector head guarantees 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. See page 10.

## Performance and weight Acura® manual 835

Volume	Weight	Inaccuracy (E%)			Imprecision (CV%)		
		Min. vol.	Mid. vol.	Max. vol.	Min. vol.	Mid. vol.	Max. vol.
0.2 - 2 mL	108 gr	<± 1.5 %	<± 1.5 %	<± 1.5 %	<± 1.5 %	<± 1.5 %	<± 1.5 %
0.5 - 5 mL	116 gr	<± 1.5 %	<± 1.5 %	<± 1.5 %	<± 1.5 %	<± 1.5 %	<± 1.5 %
1 - 10 mL	130 gr	<± 1.5 %	<± 1.5 %	<± 1.5 %	<± 1.5 %	<± 1.5 %	<± 1.5 %

## Performance and weight Acura® manual 855

Volume	Weight		Inaccuracy (E%)			Imprecision (CV%)		
	8x	12x	Min. vol.	Mid. vol.	Max. vol.	Min. vol.	Mid. vol.	Max. vol.
0.5 - 10 µL	155 gr	184 gr	<± 3.5 % <sup>1)</sup>					
5 - 50 µL	165 gr	199 gr	<± 1.0 %	<± 1.0 %	<± 1.0 %	<± 1.0 %	<± 1.0 %	<± 1.0 %
10 - 100 µL	165 gr		<± 1.0 %	<± 1.0 %	<± 1.0 %	<± 1.0 %	<± 1.0 %	<± 1.0 %
20 - 200 µL	165 gr	201 gr	<± 0.9 %	<± 0.9 %	<± 0.9 %	<± 0.9 %	<± 0.9 %	<± 0.9 %
40 - 350 µL	168 gr	203 gr	<± 1.0 %	<± 1.0 %	<± 1.0 %	<± 1.0 %	<± 1.0 %	<± 1.0 %

Performance values obtained with bidest. water at constant temperature (± 0.5°C) comprised between 20 and 25°C in accordance with ISO 8655. <sup>1)</sup> measured at 1 µL