

Acura[®] manual

your expectations – our tradition

SOCOREX
SWISS

digital reading micropipettes



The Acura[®] manual pipette line is crafted with the same attention to detail that has been the hallmark of this line since its inception.

Introducing a streamline design with an easy to read volume window, it also features a number of innovations making high-performance pipetting safe and easy.

The Acura[®] line features:

- Digital display window for permanent volume visibility
- User-friendly design
- Lightweight
- Ultra-soft, effortless activation
- Innovative tip ejection
- Swift-set user calibration system
- Entirely autoclavable at 121°C/250°F



The Acura[®] manual models

815
fixed

825
micro

835
macro

855
multi

WHEATON
Science Products

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► Most comfortable pipetting

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



► Smart and reliable volume adjustment

State-of-the-art micrometric volume settings are achieved smoothly and precisely by turning the push button. Finely machined click-stops and a free rotating cap prevent any unwanted volume alterations from occurring.

► Digital display offers superior visibility

Located on the front of the instrument, the display window allows the volume settings to be visible at all times during the pipetting process.

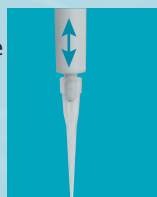


► Tip ejection – easier than ever

Ergonomically positioned, the large surface, soft-padded ejector button provides easy tip disposal.

► JusTip™ System

In addition to easy tip ejection, the shaft height adjustment system called Justip™, allows the user to utilize a wide selection of different brands of tips by adjusting the height shaft.



Engineered ergonomics and design

The greatest challenge for our engineers was integrating new high-tech materials with an already proven ergonomic design. The resulting pipette is an instrument that offers comfort, durability and superior performance.

815
fixed



1 µL to 10 mL

825
micro



0.1 – 2 µL
0.5 – 10 µL

1 – 10 µL
2 – 20 µL
5 – 50 µL

Acura[®] 815

Fixed volume – unlimited

The air displacement fixed volume pipettes come with all of the great features today's scientist expects from their pipettes. These include a slim ergonomic design, ultra-soft plunger stroke, autoclavability, and much more. The models are available in ultra-micro volumes (1, 5, and 10 µL), micro volumes (20–1000 µL), and macro volumes (2, 2.5, 5 and 10 mL).

Performance

Volume µL	Inaccuracy (E%)	Imprecision (CV%)	Volume µL	Inaccuracy (E%)	Imprecision (CV%)
1	< +/- 2.0 %	< 1.0 %	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 %
10Y	< +/- 0.7 %	< 0.8 %	500	< +/- 0.7 %	< 0.3 %
15	< +/- 0.7 %	< 0.5 %	600	< +/- 0.7 %	< 0.3 %
20	< +/- 0.7 %	< 0.5 %	700	< +/- 0.7 %	< 0.2 %
25	< +/- 0.7 %	< 0.6 %	750	< +/- 0.7 %	< 0.2 %
30	< +/- 0.7 %	< 0.6 %	800	< +/- 0.7 %	< 0.2 %
40	< +/- 0.7 %	< 0.5 %	900	< +/- 0.7 %	< 0.2 %
50	< +/- 0.7 %	< 0.4 %	1000	< +/- 0.6 %	< 0.2 %
60	< +/- 0.7 %	< 0.5 %			
70	< +/- 0.7 %	< 0.4 %			
75	< +/- 0.7 %	< 0.4 %			
80	< +/- 0.7 %	< 0.35 %			
90	< +/- 0.7 %	< 0.3 %			
100	< +/- 0.7 %	< 0.3 %			
120	< +/- 0.7 %	< 0.4 %			
150	< +/- 0.7 %	< 0.3 %			
200	< +/- 0.7 %	< 0.3 %			

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 can accommodate 7 single-channel micropipettes. Available in five attractive colors: grey, blue, yellow, green & rose.



Acura® 825/835

Adjustable volume micro and macropipettes

Equipped with a precision digital display, the new line is continuously adjustable down to very precise volume resolutions. Single-handed volume setting is easy if the other hand is not free. Measuring unknown volumes by aspiration is also possible with a high degree of accuracy. Click-stops, together with a freely rotating smartie-plunger button cap ensure the stability of settings while pipetting.

A total of 8 micropipettes ranging from 0.1 to 1000 µL; and 2 macropipettes, 0.5–5 mL and 1–10 mL models, are available.



10 – 100 µL
20 – 200 µL

100 – 1000 µL

835
macro

0.5 – 5 mL

1 – 10 mL



Workstation 340

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

Performance

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

* At 0.5 µL. Indicative data at 0.2 µL: E < +/- 12 %, CV < 8 %

** At 1.0 µL. Indicative data at 0.5 µL: E < +/- 5 %, CV < 3 %



▶ Swift-set calibration

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



▶ Easy to change color coding

The Acura® pipettes have a color-coded display window and a removable smarties button cap. Need more than one color or multiple cap colors for lab or department identification? Choose from 14 colors, or pick the smartie mix which contains all of these available colors.



▶ Macropipettes – maxi advantages

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

Optional adapter-nozzle allows for the use of Pasteur pipettes on 5 mL model, in addition to Polypropylene tips (Accessories sold separately).

▶ Minimum maintenance/sterilization

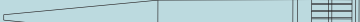
Shock, heat, chemical, and UV light resistance is provided by carefully selected materials and superior construction techniques. Consequently, maintenance requirements are virtually non-existent.



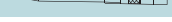
Thorough cleaning and sterilization can be achieved by autoclaving the instrument fully assembled (121°C, 20 minutes).

Pipette Tips

Tips without filter

Wheaton Cat. No.	Size	Color	Sterile	Autoclavable	Packaging	Qty/ Case	
Microtips with Flat Tip for Gel Sequencing (*0.2mm, **0.4mm)							
851176	*0.1 - 10 µL	Natural	—	—	2 rack/cs, 100/rack	200	
851178	**0.1 - 10 µL	Natural	—	—	4 rack/cs, 200/rack	800	
Microtips (*Short, **Long)							
851172	*0.5 - 10 µL	Natural	—	Yes	10 rack/cs, 100/rack	1000	
851174	**0.1 - 10 µL	Natural	—	—	4 rack/cs, 200/rack	800	
Microtips							
W851239-01	1 - 10 µL	Natural	—	—	10 rack/cs, 96/rack	960	
W851239-02	1 - 10 µL	Natural	Sterile	—	10 rack/cs, 96/rack	960	
W851239-03	1 - 10 µL	Natural	—	—	Bulk	1000	
851246	1 - 200 µL	Natural	—	Yes	10 rack/cs, 96/rack,	960	
851247	1 - 200 µL	Natural	Sterile	Yes	10 rack/cs, 96/rack	960	
851248	1 - 200 µL	Natural	—	Yes	Bulk	1000	
851271	2 - 200 µL	Yellow	—	Yes	Bulk	1000	
851272	2 - 200 µL	Yellow	—	Yes	10 rack/cs, 96/rack	960	
851276	100 - 1000 µL	Blue	—	Yes	Bulk	1000	
851277	100 - 1000 µL	Blue	—	Yes	10 rack/cs, 96/rack	960	
Macrotips							
851355	0.2 - 2 mL	Natural	—	Yes	Bulk	250	
851357*	1 - 5 mL	Natural	—	Yes	Bulk	250	
W851362**	1 - 5 mL	Natural	—	Yes	Bulk	500	
W851363**	1 - 5 mL	Natural	—	Yes	2 rack/cs, 50/rack	100	
851358	2 - 10 mL	Natural	—	Yes	Bulk	100	
Pasteur Pipettes & Adapter for Macropipettes							
357331	146 mm	Glass	—	Yes	5 pack/cs, 200/pack	1000	
357335	228 mm	Glass	—	Yes	5 pack/cs, 200/pack	1000	
W820023	Adapter	PVDF	—	—	1/case	1	
Protection Filters for Macropipettes							
W851341	2 mL	Cellulose	—	—	Bulk	250	
W851342	5 mL	Cellulose	—	—	Bulk	100	
851346	10 mL	PP Fibers	—	—	Bulk	250	

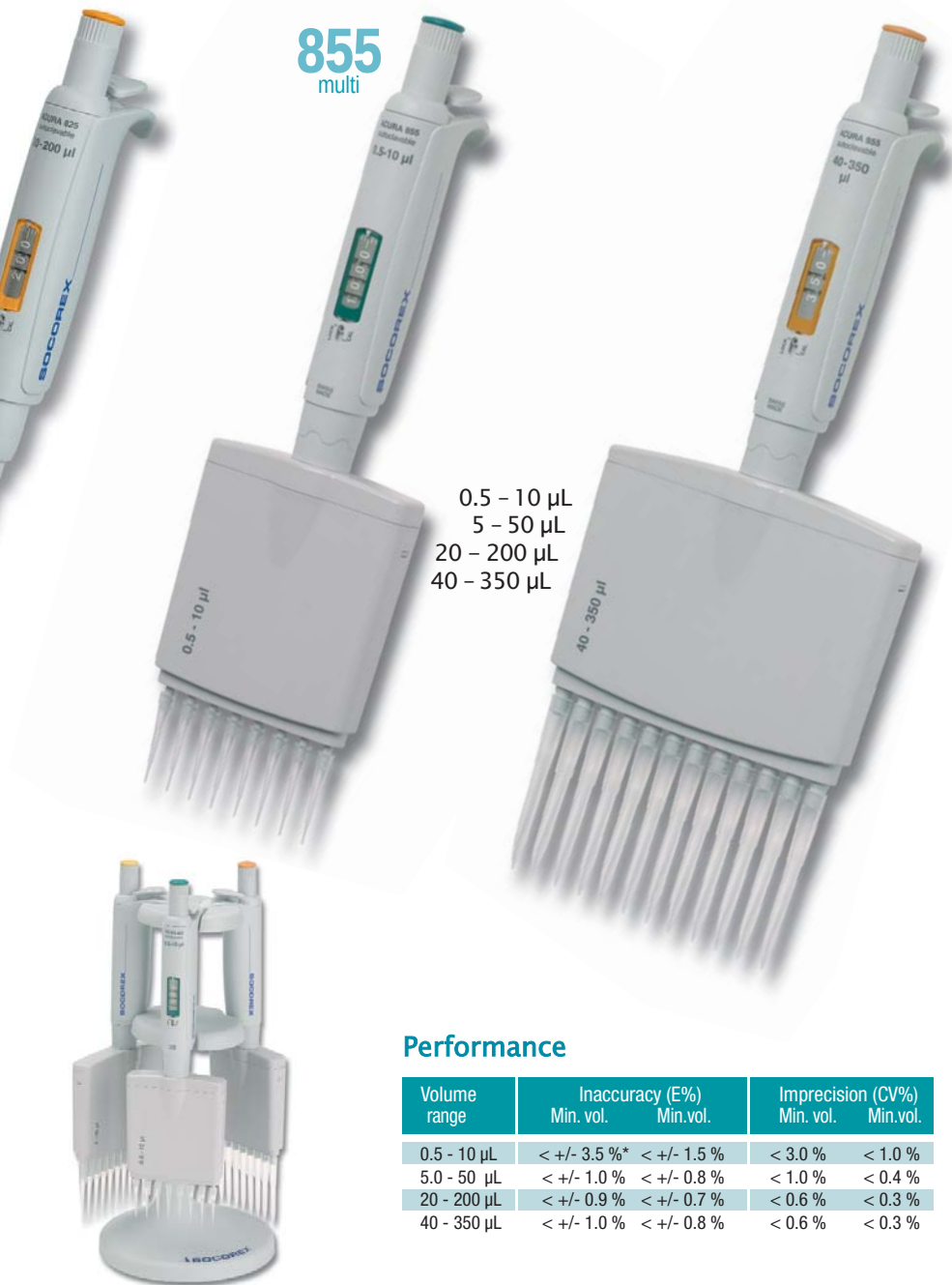
Tips with filter

Wheaton Cat. No.	Size	Color	Sterile	Autoclavable	Packaging	Qty/ Case	
Microtips with Flat Tip for Gel Sequencing (0.2mm, 0.4mm)							
851179-01	0-100 µL	Natural	Sterile	—	Individually Wrapped	1000	
851179-02	0-100 µL	Natural	—	—	10 rack/cs, 96/rack	960	
851181-01	0-300 µL	Natural	—	—	Bulk	1000	
851181-02	0-300 µL	Natural	—	—	10 rack/cs, 96/rack	960	
851181-03	0-300 µL	Natural	Sterile	—	Individually Wrapped	1000	
851181-04	0- 300 µL	Natural	Sterile	—	10 rack/cs, 96/rack	960	
851180-01	0-1000 µL	Natural	Sterile	—	Individually Wrapped	1000	
851180-02	0-1000 µL	Natural	—	—	10 rack/cs, 96/rack	960	

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 multi-channel instruments extend pipetting possibilities to high-throughput microplates while maintaining the same features as the single-channel Acura pipettes.



Performance

Volume range	Inaccuracy (E%)		Imprecision (CV%)	
	Min. vol.	Min.vol.	Min. vol.	Min.vol.
0.5 - 10 µL	< +/- 3.5 %*	< +/- 1.5 %	< 3.0 %	< 1.0 %
5.0 - 50 µL	< +/- 1.0 %	< +/- 0.8 %	< 1.0 %	< 0.4 %
20 - 200 µL	< +/- 0.9 %	< +/- 0.7 %	< 0.6 %	< 0.3 %
40 - 350 µL	< +/- 1.0 %	< +/- 0.8 %	< 0.6 %	< 0.3 %

Workstation 340

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



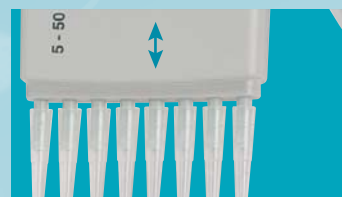
► Optimal working position

In addition to ergonomic design, the multi-channel volumetric modules can be rotated to select the best working position.



► Adjustable tip ejector

Position of tip ejector can be adjusted in seconds with a 4 mm span to perfectly match to tips used. The specially designed shape of ejector head adds to the effortless sequential tip ejection process.



► All purpose reservoirs

Ideal for multi-channel pipettes, the reagent reservoirs come in various shapes and configurations.

Acura 825 adjustable volume micropipettes & Acura 835 adjustable volume macropipettes

Wheaton Cat. No.	Volume	Division	Tip style	Qty/case
825 micropipettes				
W810300	0.1 - 2 uL	0.002 uL	10 uL	1
W810302	0.5 - 10 uL	0.01 uL	10 uL	1
W810304	1.0 - 10 uL	0.01 uL	200 uL	1
W810306	2.0 - 20 uL	0.02 uL	200 uL	1
W810308	5.0 - 50 uL	0.1 uL	200 uL	1
W810310	10.0 - 100 uL	0.1 uL	200 uL	1
W810312	20.0 - 200 uL	0.2 uL	200 uL	1
W810314	100.0 - 1000 uL	1.0 uL	1000 uL	1
835 macropipettes				
W810316	0.5 - 5 mL	0.01 mL	5 mL	1
W810318	1.0 - 10 mL	0.01 mL	10 mL	1

Acura 855 multichannel micropipettes

Wheaton Cat. No.	Volume	Division	Tip style	Qty/case
8-channel				
W810600	0.5 - 10 uL	0.01 uL	10 uL	1
W810602	5.0 - 50 uL	0.1 uL	200 uL	1
W810603	20.0 - 200 uL	0.2 uL	200 uL	1
W810604	40.0 - 350 uL	0.4 uL	350 uL	1
12-channel				
W810606	0.5 - 10 uL	0.01 uL	10 uL	1
W810608	5.0 - 50 uL	0.1 uL	200 uL	1
W810609	20.0 - 200 uL	0.2 uL	200 uL	1
W810610	40.0 - 350 uL	0.4 uL	350 uL	1

Accessories

Wheaton Cat. No.	Description	Qty/case
Smartie Plunger Caps		
W820000	White Smarties	6
W820001	Grey Smarties	6
W820002	Vanilla Smarties	6
W820003	Lemon Smarties	6
W820004	Yellow Smarties	6
W820005	Orange Smarties	6
W820006	Red Smarties	6
W820007	Rose Smarties	6
W820008	Pink Smarties	6
W820009	Purple Smarties	6
W820010	Ice Blue Smarties	6
W820011	Blue Smarties	6
W820012	Mint Smarties	6
W820013	Green Smarties	6
W820014	Assorted color Smarties	14

Your local distributor

Acura 815 fixed volume micropipettes & Acura 835 fixed volume macropipettes

Wheaton Cat. No.	Volume	Tip style	Qty/case
815 micropipettes			
W810000	1 mL	10 uL	1
W810002	5 mL	10 uL	1
W810004	10 mL	10 uL	1
W810006	15 mL	200 uL	1
W810008	20 mL	200 uL	1
W810008	25 mL	200 uL	1
W810010	30 mL	200 uL	1
W810012	40 mL	200 uL	1
W810014	50 mL	200 uL	1
W810016	60 mL	200 uL	1
W810018	70 mL	200 uL	1
W810020	75 mL	200 uL	1
W810022	80 mL	200 uL	1
W810024	90 mL	200 uL	1
W810026	100 mL	200 uL	1
W810028	120 mL	200 uL	1
W810030	150 mL	200 uL	1
W810032	200 mL	200 uL	1
W810034	250 mL	1000 uL	1
W810036	300 mL	1000 uL	1
W810038	400 mL	1000 uL	1
W810040	500 mL	1000 uL	1
W810042	600 mL	1000 uL	1
W810044	700 mL	1000 uL	1
W810046	750 mL	1000 uL	1
W810048	800 mL	1000 uL	1
W810050	900 mL	1000 uL	1
W810052	1000 mL	1000 uL	1
835 macropipettes			
W810056	2.0 mL	5 mL	1
W810058	2.5 mL	5 mL	1
W810060	5.0 mL	5 mL	1
W810062	10.0 mL	10 mL	1

Accessories

Wheaton Cat. No.	Description	Qty/case
Work Station Model 340 - fits 3-multi or single-channel		
W851369	Work Station	1
Universal Work Station Model 337 - 7-single channel pipettes		
W851361	Light Grey	1
W851354	Ice Blue	1
W851356	Vanilla Yellow	1
W851359	Mint Green	1
W851360	Rose	1
Pasteur Pipette Adaptor Nozzle		
W820023	5 mL Acura 835	1
Reservoirs		
W851364	V-Shape, PP, 70 mL	20
W851365	V-Shape, PP, 140 mL	20
W851239	8 channel, 40 mL	10
W851368	12 channel, 40 mL	10

Warranty

3 year limited warranty. See package insert for complete warranty terms and operational instructions.



WHEATON

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