SARTORIUS

Product Datasheet

Picus® 2 Electronic Pipette

The Most Sophisticated and Ergonomic Pipette Ever!



DOMINIQUE DUTSCHER SAS

Product Information

The Picus® 2 pipettes ensure reliable and repeatable pipetting results with unbeatable ergonomic design that is kind to your hand. Picus® 2 is the tool of choice for everybody from a student to experienced laboratory professional. It is as intuitive to use as a mechanical pipette and yet offers a broad range of options even for the most advanced users.

Picus® 2 saves you time in the lab with a wide selection of pipetting modes and customizable programs for every need. The most frequently used modes with specified settings can be saved on your device for a quick and easy access whereas safety features like password protection and calibration reminders will enhance your compliance. By connecting Picus® 2 to your mobile device, you can use Sartorius pipetting mobile app to smoothly run sample preparation workflows and adjust the pipette setting automatically, taking your productivity to the next level.

Features

Picus® 2

- Highest level of ergonomics provided by the uniquely low weight, light electronic tip ejection and comfortable handle design
- Extensive range of pipetting modes reduces the needed pipetting steps and speeds up work
- Electronic brake and piston control system provide outstanding accuracy and repeatability of pipetting results, independent of the user
- Intuitive user interface with language options, enables ease of use
- Adjustment wheel offers extremely fast volume setting and menu navigation
- Optiload enables perfect tip sealing for accurate delivery from each channel
- Safe-Cone Filters help prevent the risk of contamination cost-effectively when using standard tips
- Microwell plate tracker guides the user to pipette into the correct wells
- Calibration adjustment in 1, 2 or 3 points
- Run sample preparation workflows by connecting with mobile app. Adjust pipetting settings automatically with your mobile device
- Integrate Picus® 2 to be part of an existing system with open connectivity interface
- 2-level password protection for stored programs to prevent unauthorized changes (optional)
- Pipette locking, e.g. in case of contamination, increases lab safety by disabling the pipette from use
- Service and calibration reminders help the users to remember important service dates
- Repeated blow-out helps to dispense the last droplets of e.g. viscous liquids

Applications

- PCR and other DNA/RNA techniques
- ELISA
- Protein analysis
- Cell culture

and many others.

The Picus® 2 pipette is a general purpose laboratory device. The device is intended, designed and manufactured for dispensing liquids in a variety of applications, and to be used in combination with Sartorius Optifit Tips or Safetyspace® Filter Tips. The product range of the device covers a volume range of 0.5 µL to 10,000 µL.

Technical Data

Technical Specifications	
Rechargable battery	Li-Polymer with protection circuit, 3.7V | 350mAh
Charging time	Approx. 1 hour
Weight	100 g (1-ch, 300 µL) 160 g (8-ch, 300 µL)
Length	210 mm (1-ch, 300 µL) 216 mm (8-ch, 300 µL)
Number of pipetting cycles with fully charged battery	>1,000 for 1-ch models up to 1,000 µL >500 for 1-ch models above 1,000 µL and all multichannel models
Volume range	1-ch: 0.5 - 10,000 µL 8- & 12 - ch: 0.5 - 1200 µL
Pipetting modes	8 main modes + 8 advanced functions
Memory slots	20 pipetting settings can be saved for quick access
Tip ejection	Electronic
Spring loaded tip cones	Optiload feature in multichannel models
Filters	Safe-Cone Filters in all models >10 µL
Autoclavable lower parts*	121 °C, 20 min, 1 bar
Charging options available separately	USB Charging Adapter, Charging Stand for 1 pipette, Charging Carousel for 4 pipettes
Warranty	2 years, possibility for 1 year extended warranty
Pipette Tips	Compatible with Sartorius pipette tips
Bluetooth	Yes, frequency 2402-2480MHz

* Excluding 1,200 µL multichannel models

Pipetting Modes	Advanced Functions
Pipetting	Tracker, Mixing after delivery, mixing before aspiration, Counter, Repeated Blow-out
Reverse Pipetting	Tracker, Mixing before aspiration, Counter, Excess Volume Adjustment
Manual Pipetting	Repeated Blow-out
Multi-Dispensing	Tracker, Counter, mixing before aspiration, Excess Volume Adjustment, Auto Dispensing
Diluting	Mixing after delivery, Repeated Blow-out
Sequential Dispensing	Mixing before aspiration, Excess Volume Adjustment
Multi-Aspiration	Repeated Blow-out
Titrate	Fast Dispensing

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Ordering Information

Picus® 2	Channels	Volume Range (µL)	Increment (µL)	Test Volume (µL)	Mode [P][D]	Systematic Error[N] Limit ± (%)	(µL)	Random Error[N] Limit (%)	(µL)
LH-747021	1	0.5 - 10	0.01	10	P	1.0	0.100	0.4	0.040
				5	P	1.2	0.060	0.7	0.035
				1	P	3.0	0.030	2.0	0.020
				0.5	P	8.0	0.040	4.0	0.020
				1	D	6.0	0.060	7.0	0.070
LH-747041	1	5 - 120	0.10	120	P	0.5	0.60	0.15	0.18
				60	P	0.7	0.42	0.23	0.14
				12	P	2.0	0.24	1.0	0.12
				5	P	5.5	0.275	2.5	0.125
				12	D	4.0	0.48	4.0	0.48
LH-747061	1	10 - 300	0.20	300	P	0.6	1.80	0.15	0.45
				150	P	0.6	0.90	0.2	0.30
				30	P	2.0	0.60	0.8	0.24
				10	P	6.0	0.60	2.4	0.24
				30	D	3.0	0.90	3.0	0.90
LH-747081	1	50 - 1,000	1.00	1,000	P	0.45	4.5	0.15	1.5
				500	P	0.6	3.0	0.2	1.0
				100	P	2.0	2.0	0.5	0.5
				50	P	4.0	2.0	1.0	0.5
				100	D	2.5	2.5	2.0	2.0
LH-747101	1	100 - 5,000	5.00	5,000	P	0.5	25	0.15	7.5
				2,500	P	0.7	17.5	0.2	5
				500	P	1.6	8	0.4	2
				100	P	8.0	8	2.0	2
				500	D	2.4	12	2.4	12
LH-747111	1	500-10,000	10.00	10,000	P	0.6	60	0.2	20
				5,000	P	0.9	45	0.3	15
				1,000	P	3.0	30	0.6	6
				500	P	7.0	35	1.2	6
				1,000	D	4.0	40	2.4	24
LH-747321 LH-747421	8 12	0.5 - 10	0.01	10	P	1.2	0.120	0.5	0.050
				5	P	1.5	0.075	0.8	0.040
				1	P	4.0	0.040	3.0	0.030
				0.5	P	10.0	0.050	6.0	0.030
				1	D	12.0	0.120	15.0	0.150
LH-747341 LH-747441	8 12	5 - 120	0.10	120	P	0.6	0.72	0.3	0.36
				60	P	0.8	0.48	0.4	0.24
				12	P	2.5	0.30	1.67	0.20
				5	P	6.0	0.30	4.0	0.20
				12	D	4.5	0.54	8.0	0.96
LH-747361 LH-747461	8 12	10 - 300	0.20	300	P	0.6	1.80	0.2	0.60
				150	P	0.8	1.20	0.3	0.45
				30	P	2.33	0.70	1.0	0.30
				10	P	8.0	0.80	3.0	0.30
				30	D	3.33	1.00	6.0	1.80
LH-747391 LH-747491	8 12	50- 1,200	1.00	1,200	P	0.6	7.2	0.2	2.4
				600	P	1.0	6.0	0.3	1.8
				120	P	2.5	3.0	1.0	1.2
				50	P	8.0	4.0	2.0	1.0
				20	D	3.33	4.0	3.33	4.0

[N] Note: The values provided for systematic and random errors apply specifically to the pipettes mentioned, when used in conjunction with compatible Sartorius Optifit non-sterile tips. These values can be attained only under strictly controlled conditions, such as during type examinations conducted in accordance with ISO 8655 standards. When the mentioned pipettes are used with other Sartorius tips, they meet the specifications outlined in ISO 8655.

[P] P = Pipetting Mode

[D] D = Multi-dispensing mode. The listed systematic and random error values are of 10 measurements at 10 % of the nominal volume.

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