

8.1 pipet4u

Digital SC Micropipettors

Fully autoclavable single channel pipettors with variable volumes



High Comfort

Comfortable and Low Effort Pipetting reduces the risk of repetitive strain injuries (RSI). Setting the volume is easy and absolute precise using the push button, even when wearing gloves

Maximum Precision and Accuracy

Safe counter mechanism preventing accidental volume changes during pipetting. A thermal insulation of the internal components, through the innovative, ergonomic soft grip, improves accuracy.

Universal Blow Out System

Two step plunger operation allows the use of the "reverse pipetting technique". This also facilitates last drop dispensing by soft plunger movements. High accuracy and precision are guaranteed.

Easy Maintenance and Adjustment

Easy to adjust, with one tool. Maintenance and adjustment take only a few minutes. The design and the universal tool are a perfect pair for easy and secure adjustment.

Satisfaction Guaranteed

Each pipette is individually tested and twice calibrated conforming to EN ISO 8655 and DIN 12650 Standards.

An Incredible Combination of Accuracy, Precision and Value

Specification	According to
International Organisation for Standardisation	ISO Standard 8655, part 1-6
European Committee for Standardisation	CEN EN ISO 8655
CE-marking as IVD certificate registration no.	EU-Directive 98/79/EG, DE/CA90/IVD-22
German Institute for Standardisation	DIN 12950
RoHS Compliance certificate	EU Directive 2002/95/EC
General safety requirements	In accordance with IEC 61010-1
Electromagnetic compatability requirements	In accordance with IEC 61326-1
Marking and layout	In accordance with IEC 60073
Conformity testing	In accordance with DIN 12600 (H-sign)
Environmental management certificate	ISO Standard 14000 and ISO Standard 14001
USP-Plastic Test, Class VI, certificate	ISO Standard 10993
GMP/GLP certificate	WHO Technical Report Series 908, 37. Report, Geneva 2003

The standards used for the measurements are traceable to the national standards of the Federal Republic of Germany at the Physikalisch-Technische Bundesanstalt (PTB).

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Principle of Operation:

The tip is attached to the piston pipette. With the piston at the lower aspiration limit, the tip is dipped into the liquid to be dispensed as a measured volume. When moved to the upper aspiration limit, the piston aspirates the liquid. The liquid to be dispensed is then expelled by depressing or sliding the piston between the volume-defining limits. The pistons have a body of air contained between the piston and the surface of the liquid (air displacement). AHN pipet4u Micropipettes have an extra air volume which can be used to expel the last drop of liquid.

CE-Marking Adjustment

pipet4u Micropipettes are CE-marked as IVD and adjusted for the delivery (Ex) of its nominal volume (or selected volume, in the case of a variable-volume model), for the standard reference temperature of 20°C, a relative air humidity of 50 % and a barometric pressure of 101 kPa (1,01 bar), using grade 3 water as defined in ISO 3696.

Autoclavability

pipet4u Micropipettes can be autoclaved using the following specifications:

Temperature	120°Celsius / 250° Fahrenheit
Pressure:	1,05 bar / 15 psig (Pounds)
Time:	15 minutes or less

Note: Excessive heat and/or time in the autoclave can cause warping! After each sterilisation users should establish a regular testing routine (see ISO 8655) for their pipettes using either ISO 8655-6 or alternative test methods. Gas sterilization with ethylene oxide, formaldehyde is possible. We recommend allowing an appropriate aeration time suited to the particular application before reusing the item. Chemical disinfectants which are commonly-used (quaternary ammonium compounds, iodophors, formalin, benzalkonium chloride, ethanol etc.) can be used without problems. After each sterilisation users should establish a regular testing routine (see ISO 8655) for their pipettes using either ISO 8655-6 or alternative test methods.

pipet4u Digital SC Micropipettes with variable volumes specification:

Cat.no.	Vol. range µl	Increments µl	Test Volume µl	% Inaccuracy	% Imprecision
8-100-00-9	0.1 – 2.5	0.05	0.25 / 1.25 / 2.5	12.0 / 3.0 / 2.5	6.0 / 3.0 / 2.0
8-101-00-9	0.5 – 10	0.1	1 / 5 / 10	2.5 / 1.5 / 1.0	1.5 / 0.8 / 0.4
8-102-00-9	2 – 20	0.5	2 / 10 / 20	2.5 / 1.2 / 1.0	1.5 / 0.6 / 0.3
8-103-00-9	5 - 50	0.5	5 / 25 / 50	2.0 / 1.2 / 1.0	1.5 / 0.8 / 0.3
8-104-00-9	10 - 100	1	10 / 50 / 100	2.0 / 1.0 / 0.8	1.5 / 0.3 / 0.2
8-105-00-9	20 - 200	1	20 / 100 / 200	2.5 / 1.0 / 0.6	0.7 / 0.3 / 0.2
8-105-01-9	50 - 200	1	50 / 100 / 200	1.0 / 1.0 / 0.6	0.4 / 0.3 / 0.2
8-106-00-9	100 - 1000	5	100 / 500 / 1000	2.0 / 0.9 / 0.6	0.6 / 0.2 / 0.2
8-106-01-9	200 - 1000	5	200 / 500 / 1000	0.9 / 0.9 / 0.6	0.3 / 0.2 / 0.2
8-107-00-9	500 - 5000	50	500 / 2500 / 5000	1.9 / 1.0 / 0.6	0.7 / 0.3 / 0.2
8-108-00-9	1000-10000	100	1000/5000/10000	3.0 / 1.2 / 0.6	0.6 / 0.3 / 0.2

pipet4u racks for micropipettes:

Cat.no.	Description	Sterile	Colour	Pack type	Pack size	Sales unit
8-130-00-9	Rack for 4 micropipettes	non	white	carton	1	1 x 1
8-131-00-9	Rack for 6 micropipettes	non	white	carton	1	1 x 1