

Electronic Single Channel Micro Adjustable Pipette

Item Number: JZ09



Introduction

Upgrade your laboratory precision with our electronic single channel adjustable micro pipette featuring motorized aspiration control, ergonomic multi-function dial operation, rechargeable lithium battery power, and high-accuracy volume delivery across analytical chemistry, battery research, and life science workflows.

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Application	Description	Key Benefit
Battery Electrolyte Formulation & Additive Dosing	Precise micro-volume dispensing of specialized liquid additives, ionic liquids, and novel solvents into experimental coin and pouch cell electrolytes.	Eliminates volumetric variance across parallel test batches, guaranteeing reproducible electrochemical stability assessments.
Nanomaterial Precursor Synthesis	Controlled micro-titration and droplet introduction of organometallic precursors, catalysts, and crosslinkers in chemical synthesis reactors.	Consistent motorized aspiration speed prevents precursor shock-mixing and controls reaction kinetics precisely.
Analytical Standard Preparation & Serial Dilution	Automated calibration curve generation, ICP-MS trace sample preparation, and spectrophotometric standard dilutions across varying concentrations.	High precision (CV ≤ 0.2%) guarantees analytical linearity and reduces standard calibration curve re-runs.
Pharmaceutical Formulation & Micro-Assays	Precise liquid transfer for reagent preparation, cell culture media supplementation, enzymatic kinetics, and bioanalytical assays.	Motorized stroke consistency eliminates user-dependent pipetting errors and minimizes repetitive strain during large sample batches.
Sol-Gel & Ceramic Coating Slurry Additives	Metered addition of binders, defoamants, plasticizers, and stabilizers into micro-slurries for thin-film and solid electrolyte processing.	Adjustable dispensing speeds enable smooth dosing of shear-sensitive additives without bubble formation or liquid shearing.
Molecular Biology & PCR Reaction Setup	Aliquoting primers, master mixes, template DNA, and fluorescent probes into micro-well plates and reaction tubes.	Ultra-fine increments down to 0.01 µL enable reliable setup of concentrated master mixes and sub-microliter trace reactions.

Model Identifier	Volume Range (µL)	Increment (µL)	Test Volume (µL)	Max Permissible Systematic Error (Accuracy) (±µL)	Max Permissible Systematic Error (Accuracy) (±%)	Max Permissible Random Error (Precision) (s.d. µL)	Max Permissible Random Error (Precision) (CV%)
JZ09-10	0.5 - 10	0.01	10	0.10	1.0%	0.05	0.5%
JZ09-10	0.5 - 10	0.01	1	0.035	3.5%	0.03	3.0%
JZ09-50	5 - 50	0.1	50	0.40	0.8%	0.15	0.3%
JZ09-50	5 - 50	0.1	5	0.15	3.0%	0.125	2.5%
JZ09-300	30 - 300	1.0	300	1.80	0.6%	0.60	0.2%
JZ09-300	30 - 300	1.0	30	0.90	3.0%	0.21	0.7%
JZ09-1000	100 - 1000	5.0	1000	6.00	0.6%	2.00	0.2%
JZ09-1000	100 - 1000	5.0	100	3.00	3.0%	0.60	0.6%

Specification Parameter	Details & Operating Capabilities
Channel Configuration	Single Channel Micro-Dispensing Architecture

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Power Architecture	Built-in High-Capacity Rechargeable Lithium-Ion Battery
User Interface	High-Visibility Body-Mounted LCD Display with Real-Time Parameter Feedback
Control System	Digital Microprocessor with Multifunction Rotary Navigation Dial
Fluid Velocity Settings	Fully Adjustable Multi-Stage Aspiration and Dispensing Speed Profiles
Mechanism Type	Electronic Motor-Driven Micrometer Piston Displacement
Operating Ergonomics	Ultra-Lightweight Contoured Grip with Optimized Center of Gravity