

# REPETMAN®

*Electronic Motorized Repetitive*

*Pipette*



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## Electronic Motorized Repetitive Pipette

Ideal for routine applications in the clinical, biological, chemical, pharmaceutical, food and beverage, cosmetic and forensic fields, with incredible reliability and performance.

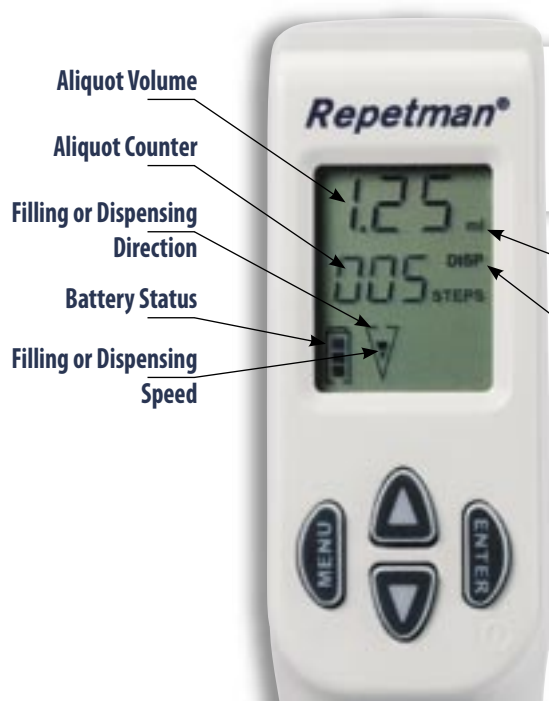
### Comfortable

- > **Ergonomic design**, fits naturally in either hand for smoother repetitive pipetting every day!
- > **Extremely low activation force**, just press the step key to dispense.
- > **Motorized drive**, virtually eliminates the risk of Repetitive Strain Injuries (RSI).
- > **Easy one-handed operation**, the other hand remains free for handling the vessels.
- > **Automatic tip size identification**, no need to calculate or manually set the tip size.
- > **Intuitive menu-driven operation**, easy-to-use keypad enables quick and simple set-up.
- > **Lightweight, fatigue-free operation** for routine laboratory tasks.
- > **Large LCD screen**, all parameters are displayed large and clear.
- > **Auto Power Off**, prolongs battery's life.



### Higher Productivity

- > **Motorized drive**, for a fast and convenient repetitive dispensing: filling micro-plates, large batches of vials, etc.
- > **Up to 100 aliquots** dispensed from a single aspiration.
- > **Large capacity with the 50 ml Repet-Tip**, no need to frequently refill.



### All information at a glance!

All operating information are clearly displayed on a large LCD screen with symbols, words and values. Four control keys allow for straightforward menu navigation and setting.

### Volume Unit

### Operating Mode

**Dispensing – "DISP"**: Dispenses up to 100 predefined aliquot volumes from a single aspiration.

**Automatic-Dispensing – "AUTO-DISP"**: The "learn" function detects the user's pipetting rate over the first three dispensing steps and then automatically adjusts the dispensing rhythm.

No need to pre-program the time interval.

**Pipetting – "PIP"**: A set volume is aspirated and dispensed.

## High Performance

User selectable **Volume Adjustment from 1  $\mu$ L to 50 mL** including non-standard volumes such as 8.03  $\mu$ L, 64.1  $\mu$ L, 2.07 mL, 14.9 mL, 47.6 mL. No pre-set values eliminate tedious calculations for a simplified hassle-free repetitive pipetting.

- > **Positive-displacement pipette**, only one pipette for both aqueous and problem liquids (volatile or viscous).
- > **Independent Speed Adjustment**, filling and dispensing speeds can be set individually.
- > **Precision drive mechanism** allows increments as low as 0.01  $\mu$ L.

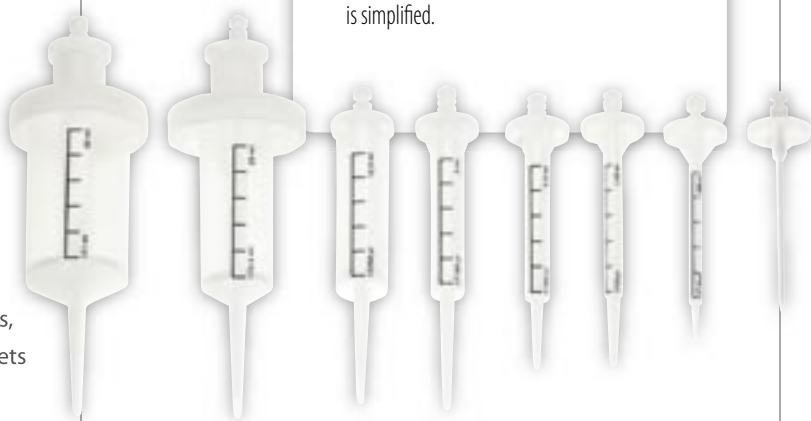
## Compatible with most Standard Tips

The **special tip connector** accepts most standard repetitive pipette tips such as Eppendorf® Combitips® plus, Gilson DistriTips® and many others. The operator then sets the tip size manually.

## Large Choice of Repet-Tips

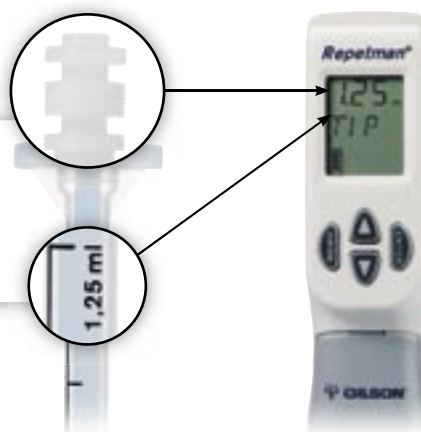
**Eight encoded Repet-Tip sizes (50, 25, 12.5, 5.0, 2.5, 1.25, 0.5, 0.1 mL) are available in non-sterile and sterile versions.**

The blister pack sterile version is certified free of pyrogens (endotoxins). Finding the optimal balance between accuracy and aliquot volume is simplified.



### Automatic Tip Size Identification

The unique tip-size encoding system automatically identifies the Gilson Repet-Tip size and instantly displays the tip volume as it is inserted.



### Virtually Continuous Pipetting

A second battery may be fully charged in 2.5 hours while the operator uses Repetman. After 3 minutes of inactivity, the Auto Power Off system turns the instrument off to conserve battery power.



## Technical Specifications

Volume range	1 µL to 50 mL (with 8 Repet-Tip sizes)
Aspirating & Dispensing speed	Low, medium and high
Number of aliquots	1 to 100
Aliquot volume	From minimum to nominal volume of the tip
Dispense modes	Dispensing, Auto-dispensing, Pipetting
Operating temperature	15 – 40 °C
Vapor pressure	Up to 500 mbar
Viscosity	Up to 20 mPa.s with a 50 mL tip Up to 260 mPa.s with a 5 mL tip Up to 977 mPa.s with a 1.25 mL tip
Weight without battery (g)	84
Weight with battery (g)	110
Dimensions (mm)	180 x 34 x 60
Battery pack autonomy (hrs)	2.5 in intensive use with a 12.5 mL tip
Battery charging time (hrs)	2.5 out of the instrument, 3.5 inside the instrument
Charging stand input	12V/500mA

## Ordering Information

Description	Reference Number
Repetman, EU plug (230V / 50Hz)	F164501
Repetman, US plug (110V / 50-60Hz)	F164502
Repetman, UK plug (230V / 50Hz)	F164503
Repetman, Australian plug (240V / 50Hz)	F164504
NiMH battery pack	F164595
Non Sterile Repet-Tip	Reference Number
Repet-Tip (0.1 mL, box of 100)	F164510
Repet-Tip (0.5 mL, box of 100)	F164520
Repet-Tip (1.25 mL, box of 100)	F164530
Repet-Tip (2.5 mL, box of 100)	F164540
Repet-Tip (5.0 mL, box of 100)	F164550
Repet-Tip (12.5 mL, box of 100)	F164560
Repet-Tip (25 mL, box of 50*)	F164570
Repet-Tip (50 mL, box of 25*)	F164580
Adapter for 25/50 ml Repet-Tip (set of 10)	F164591
Sterile Repet-Tip**	Reference Number
Repet-Tip (0.1 mL, box of 100)	F164515
Repet-Tip (0.5 mL, box of 100)	F164525
Repet-Tip (1.25 mL, box of 100)	F164535
Repet-Tip (2.5 mL, box of 100)	F164545
Repet-Tip (5.0 mL, box of 100)	F164555
Repet-Tip (12.5 mL, box of 100)	F164565
Repet-Tip (25 mL, box of 25*)	F164575
Repet-Tip (50 mL, box of 25*)	F164585
Adapter for 25/50 ml Repet-Tip (set of 5)	F164592

\*One autoclavable adapter is provided in each box \*\* Sterile / Endotoxin-free

## Performance Data - Gilson Repetman with Repet-Tips

Repet-Tip size (mL)	Vol. range	Systematic error (±)								Random error (≤)							
		100 %		50 %		10 %		1 %		100 %		50 %		10 %		1 %	
		%	µL	%	µL	%	µL	%	µL	%	µL	%	µL	%	µL	%	µL
0.1	1-100 µL	1	1	1.2	0.6	1.6	0.16	16	0.16	0.5	0.5	1	0.5	2	0.2	12	0.12
0.5	5-500 µL	0.9	4.5	0.9	0.25	0.9	0.45	9	0.45	0.25	1.25	0.5	1.25	1	0.5	6	0.3
1.25	12.5 µL-1.25 mL	0.6	7.5	0.6	3.75	0.9	1.13	8	1	0.15	1.88	0.3	1.88	0.6	0.75	3.5	0.44
2.5	25 µL-2.5 mL	0.5	12.5	0.5	6.25	0.8	2	8	2	0.1	2.5	0.2	2.25	0.4	1	2.5	0.625
5	50 µL-5.0 mL	0.5	25	0.5	12.5	0.8	4	8	4	0.08	4	0.15	3.75	0.3	1.5	1.5	0.75
12.5	125 µL-12.5 mL	0.4	50	0.4	25	0.5	6.25	5	6.25	0.08	10	0.15	9.38	0.25	3.13	1.25	1.57
25	250 µL-25 mL	0.3	75	0.3	37.5	0.3	7.5	3	7.5	0.08	20	0.15	18.75	0.25	6.25	1.25	3.13
50	500 µL-50 mL	0.3	150	0.3	75	0.3	15	3	15	0.08	40	0.15	37.5	0.25	12.5	1.325	6.25

The tolerances defined in ISO 8655 are not exceeded.

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**ISO9001 Certified**

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