

## PIPETTES



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ANALYTICAL EXCELLENCE...

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### TopPette-Mechanical Pipette

#### FEATURES: TOPPETTE

- Light weight, ergonomic, low force design
- Digital display
- Volume range of 0.1 $\mu$ l to 10ml
- Easy to calibrate and maintain
- The lower part is Autoclavable
- Design helps avoid repetitive strain injuries



#### FEATURES: MULTI-CHANNEL TOPPETTE

- 8 and 12 channel pipettes are available for standard 96-well plate
- Dispensing head rotates to ensure optimum pipetting convenience
- Individual piston/tip cone assemblies allow for easy repair and maintenance
- Compound material tip cone design allows visual seal verification
- Universal pipette tips can be used



**MODEL SPECIFICATIONS:**

Single-Channel Adjustable Volume Pipettes							
Model No	Volume Range	Increment	Test Volume (μl)	Maximum Permissible Systematic error		Maximum Permissible Random error	
				%	μl	%	μl
TM2.5	0.1-2.5μl	0.05μl	2.5	2.50%	0.0625	2.00%	0.05
			1.25	3.00%	0.0375	3.00%	0.0375
			0.25	12.00%	0.03	6.00%	0.015
TM10	0.5-10μl	0.1μl	10	1.00%	0.1	0.80%	0.08
			5	1.50%	0.075	1.50%	0.075
			1	2.50%	0.025	1.50%	0.015
TM20	2-20μl	0.5μl	20	0.90%	0.18	0.40%	0.08
			10	1.20%	0.12	1.00%	0.1
			2	3.00%	0.06	2.00%	0.04
TM50	5-50μl	0.5μl	50	0.60%	0.3	0.30%	0.15
			25	0.90%	0.225	0.60%	0.15
			5	2.00%	0.1	2.00%	0.1
TM100	10-100μl	1μl	100	0.80%	0.8	0.15%	0.15
			50	1.00%	0.5	0.40%	0.2
			10	3.00%	0.3	1.50%	0.15
TM20/200	20-200μl	1μl	200	0.60%	1.2	0.15%	0.3
			100	0.80%	0.8	0.30%	0.3
			20	3.00%	0.6	1.00%	0.2

TM50/200	50-200 $\mu$ l	1 $\mu$ l	200	0.60%	1.2	0.15%	0.3
			100	0.80%	0.8	0.30%	0.3
			50	1.00%	0.5	0.40%	0.2
TM100/1000	100-1000 $\mu$ l	5 $\mu$ l	1000	0.60%	6	0.20%	2
			500	0.70%	3.5	0.25%	1.25
			100	2.00%	2	0.70%	0.7
TM200/1000	200-1000 $\mu$ l	5 $\mu$ l	1000	0.60%	6	0.20%	2
			500	0.70%	3.5	0.25%	1.25
			200	0.90%	1.8	0.30%	0.6
TM1000/5000	1000-5000 $\mu$ l	50 $\mu$ l	5000	0.50%	25	0.15%	7.5
			2500	0.60%	15	0.30%	7.5
			1000	0.70%	7	0.30%	3
TM10ml	2-10ml	0.1ml	10ml	0.60%	60	0.20%	20
			5ml	1.20%	60	0.30%	15
			2ml	3.00%	60	0.60%	12

8-channel Adjustable Volume Pipettes							
Model No	Volume Range	Increment	Test Volume ( $\mu$ l)	Maximum Permissible Systematic error		Maximum Permissible Random error	
				%	$\mu$ l	%	$\mu$ l
TM10/8	0.5-10 $\mu$ l	0.1 $\mu$ l	10	1.50%	0.15	1.50%	0.15
			5	2.50%	0.125	2.50%	0.125
			1	4.00%	0.04	4.00%	0.04

TM50/8	5-50 $\mu$ l	0.5 $\mu$ l	50	1.00%	0.5	0.50%	0.25
			25	1.50%	0.375	1.00%	0.25
			5	3.00%	0.15	2.00%	0.1
TM300/8	50-300 $\mu$ l	5 $\mu$ l	300	0.70%	2.1	0.25%	0.75
			150	1.00%	1.5	0.50%	0.75
			50	1.50%	0.75	0.80%	0.4

12-channel Adjustable Volume Pipettes							
Model No	Volume Range	Increment	Test Volume ( $\mu$ l)	Maximum Permissible Systematic error		Maximum Permissible Random error	
				%	$\mu$ l	%	$\mu$ l
TM10/12	0.5-10 $\mu$ l	0.1 $\mu$ l	10	1.50%	0.15	1.50%	0.15
			5	2.50%	0.125	2.50%	0.125
			1	4.00%	0.04	4.00%	0.04
TM50/12	5-50 $\mu$ l	0.5 $\mu$ l	50	1.00%	0.5	0.50%	0.25
			25	1.50%	0.375	1.00%	0.25
			5	3.00%	0.15	2.00%	0.1
TM300/12	50-300 $\mu$ l	5 $\mu$ l	300	0.70%	2.1	0.25%	0.75
			150	1.00%	1.5	0.50%	0.75
			50	1.50%	0.75	0.80%	0.4

Fixed Volume Pipettes							
Model No	Volume Range	Increment	Test Volume (μl)	Maximum Permissible Systematic error		Maximum Permissible Random error	
				%	μl	%	μl
TM5F	5μl	-	5μl	1.3%	0.065	1.2%	0.06
TM10F	10μl	-	10μl	0.8%	0.08	0.8%	0.08
TM20F	20μl	-	20μl	0.6%	0.12	0.5%	0.1
TM25F	25μl	-	25μl	0.5%	0.125	0.3%	0.075
TM50F	50μl	-	50μl	0.5%	0.25	0.3%	0.15
TM100F	100μl	-	100μl	0.5%	0.5	0.3%	0.3
TM200F	200μl	-	200μl	0.4%	0.8	0.2%	0.4
TM250F	250μl	-	250μl	0.4%	1.0	0.2%	0.5
TM500F	500μl	-	500μl	0.3%	1.5	0.2%	1.0
TM1000F	1000μl	-	1000μl	0.3%	3.0	0.2%	2.0
TM2000F	2000μl	-	2000μl	0.3%	6.0	0.15%	3.0
TM5000F	5000μl	-	5000μl	0.3%	15	0.15%	7.5