

pipetman

M96



PIPETMAN® M96 SPECIFICATIONS AND TECHNICAL DATA

PIPETMAN® M96 is an electronic pipette designed for high-throughput work on 96- and 384-well microplates. Engineered to deliver consistent and reliable performance, it combines precise multichannel specifications with a robust design validated through extensive testing. Its performance and reliability are demonstrated through comprehensive verification data presented in the following sections.

When maintained according to recommended service intervals and adapted to the intensity of use, the instrument is designed to provide reliable operation over many years.

Gilson Maximum Permissible Errors

Built to deliver excellent accuracy and precision, each PIPETMAN M96 is inspected and validated by qualified technicians in accordance with the Gilson Quality System. Gilson declares that its manufactured pipettes comply with ISO 8655 requirements through type testing, with adjustments performed under strictly defined and monitored conditions (based on ISO 8655-6).

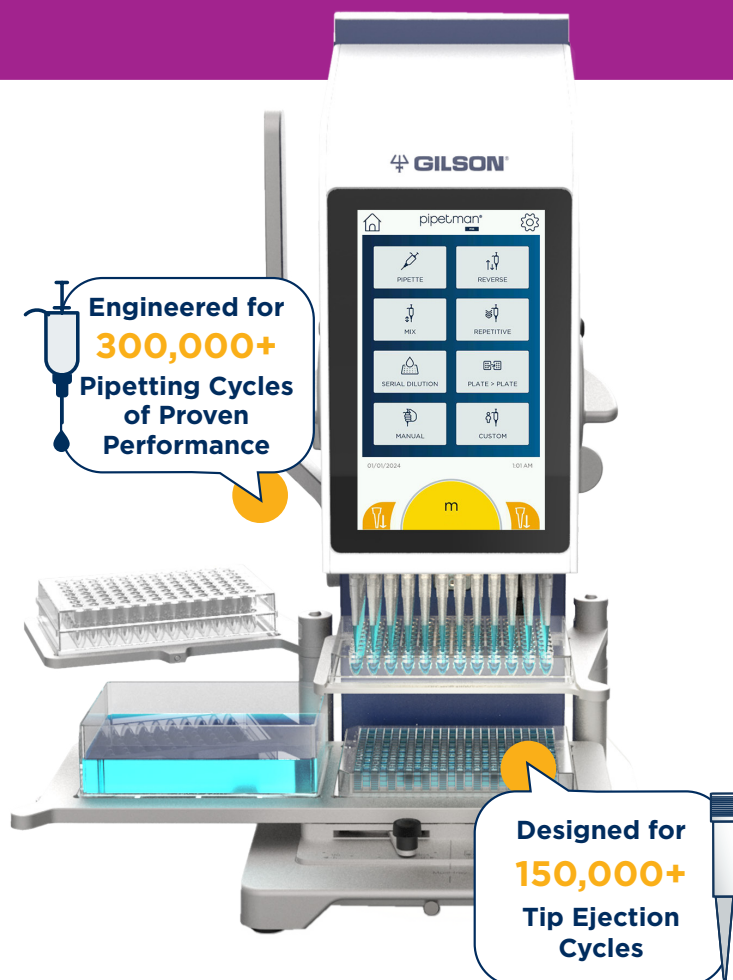


Table 1

PIPETMAN® M96 maximum permissible errors

PIPETMAN® M96								
Model	PIPETMAN® DIAMOND Tips	Volume Range (µL)	Volume Test Control		GILSON			
			(µL)	(%)	Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*
P96x20M	D200	2-20 µL	2	10	± 0.12	≤ 0.100	± 6.00	≤ 5.0
			10	50	± 0.12	≤ 0.100	± 1.20	≤ 1.0
			20	100	± 0.20	≤ 0.180	± 1.00	≤ 0.9
P96x200M	D200	10-200 µL	20	10	± 0.4	≤ 0.2	± 2.00	≤ 1.25
			100	50	± 1.00	≤ 0.60	± 1.00	≤ 0.60
			200	100	± 1.60	≤ 0.80	± 0.80	≤ 0.40

These values were established using genuine PIPETMAN® DIAMOND Tips at factory-set speeds (6/6 for P96x20M and 3/6 for P96x200M) and are guaranteed only when PIPETMAN® DIAMOND Tips are used.

*CV means Coefficient of Variation



TECHNICAL DATA

	P96x20M	P96x200M
Part Numbers	FH10001 (Bluetooth*-connected) FH10003	FH10002 (Bluetooth*-connected) FH10004
Dimensions (Pipetting Head in the Locked Position)	340 x 210 x 450 mm (W x L x H)	
Weight (Without Accessories)	Approx. 10.2 kg	
Labware Compatibility	Standard SLAS microplates	
External Power Supply	Voltage Input Frequency: 47 to 63 Hz Voltage: 90-264V AC Voltage Output Voltage: 24V DC (Direct Current) Current Rating: 3.75A, 90W	
Environmental Conditions	Degree of pollution: indoor use level 2 Altitude: up to 2000 m Temperature range: 5°C to 40°C Humidity: maximum relative humidity 80%	
Storage Conditions	Temperature: -20°C to 50°C - Humidity max: 80%	
Main Materials	Housing: polystyrene (PS) Pin Plate: Polyoxymethylene (POM), Stainless Steel Metal parts (tip fitting arm, base, trays, etc.): Aluminum	
Bluetooth Specifications (For Bluetooth-Connected Models Only)	Frequency Band: 2400-2483.5 MHz Power Output: 8 dBm	
Degree of Ingress Protection (IEC 60529)	IP20	

DESIGN RELIABILITY

- Tested to **302,400 pipetting cycles**
- Tested to **151,200 tip ejection cycles**
- Equivalent to 3 years of intensive laboratory use
- Based on real-life workload simulation:



**1 pipetting
cycles/minute**



7 hours/day



5 days/week



**48 weeks/
year**

CHEMICAL RESISTANCE

Built to withstand aggressive cleaning protocols and accidental splashes in demanding laboratory environments.

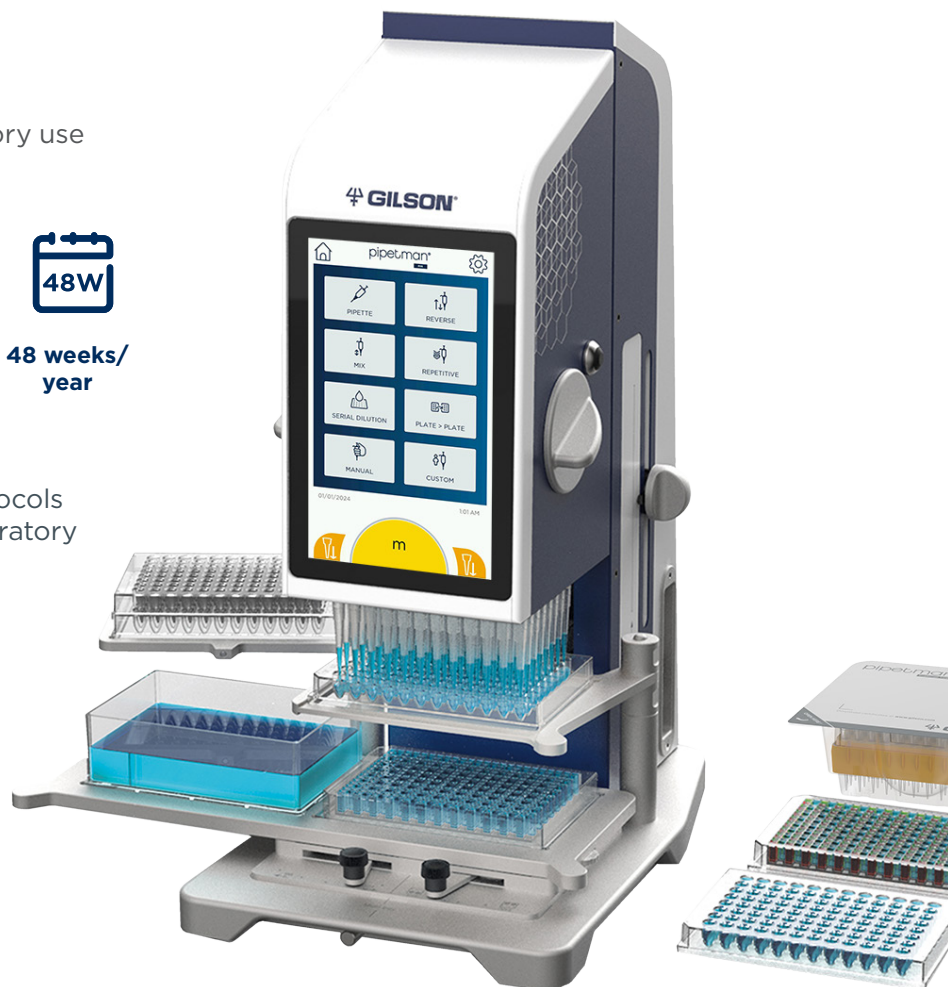
Resistant to:

Decontamination Agents

- RNase Zap
- LookOut DNA Erase
- Hydrogen peroxide

Laboratory Chemicals & Splashes

- Acetone
- Acetonitrile
- 25% Ammonia
- DMSO
- Ethanol
- 37% Hydrochloric Acid
- 30% Sodium Hydroxide
- Sodium Hypochlorite





REGULATORY COMPLIANCE

Gilson certifies on its sole responsibility that PIPETMAN M96 and PIPETMAN M96 Bluetooth-connected models comply with the requirements of the following standards:

EU Regulation All Models

2014/30/EU Electromagnetic compatibility, EMC

2014/35/EU Low Voltage Directive, LVD

2011/65/EU Restriction of Hazardous Substances (RoHS-2)

(EU) 2015/863 Restriction of Hazardous Substances (RoHS-3)



EU Regulation for Bluetooth-Connected Products

2014/53/EU Radio Equipment Directive

UK Regulation All Models

Electromagnetic Compatibility, Regulation 2016

Electrical Equipment (Safety), Regulation 2016

Radio Equipment Regulation 2017/1206



WEEE

The WEEE symbol (crossed-out wheeled bin), according to the European Directive 2012/19/EU, indicates separate collection for WEEE - Waste of Electrical and Electronic Equipment.

Do not dispose of electronic devices and their batteries in a household bin, use the recycling path in place in your country.



USA User Information

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference,
- (2) This device must accept any interference received, including interference that may cause undesired operation.



CAUTION

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Regulatory Compliance for Bluetooth-Connected Models

This Bluetooth-enabled device also complies with the following requirements:

USA, User information: Contains FCC ID: 2AAQS-ISP1807

CAUTION

Any changes or modifications not expressly approved by Gilson and the party responsible for compliance could void the user's authority to operate the equipment.

Canada, User information: Contains IC: 11306A-ISP1807

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Japan certification n° 020 -200037



South Korea, KCC Certification n° R-C-iNs-ISP1807