

HAMILTON ZEUS Pipetting Module

Technical Specifications

The HAMILTON Z-Excursion Universal Sampler (ZEUS) Pipetting Module is a fully automated, self-contained, ready-to-go liquid handling module with integrated Z-motion for integration into analyzers.

Specifications

Pipetting Range:	1 μ L - 1000 μ L
Pipetting Modes:	Single and aliquot dispensing
Process Monitoring:	Qualitative pipette monitoring (QPM*)
Tip Presence:	Detected
Liquid Level Detection (LLD):	Pressure LLD

Capacitive LLD

Mechanical Dimensions: 313 x 205 x 25 mm (H x L x W)

Weight: 1075 g

Max. Z-Excursion: 180 mm

Resolution Z-axis: 6 μ m

Max. Speed Z-Axis: 0.2 mm/s - 450 mm/s

Max Speed Pump: 10 μ L/s - 2500 μ L/s

Power Requirements: 48 VDC \pm 5%

Interface: CAN (HAMILTON protocol),
FFC connector

Operating Temperature: 18 $^{\circ}$ C - 32 $^{\circ}$ C

Operating Humidity: 40% - 80%, non-condensing

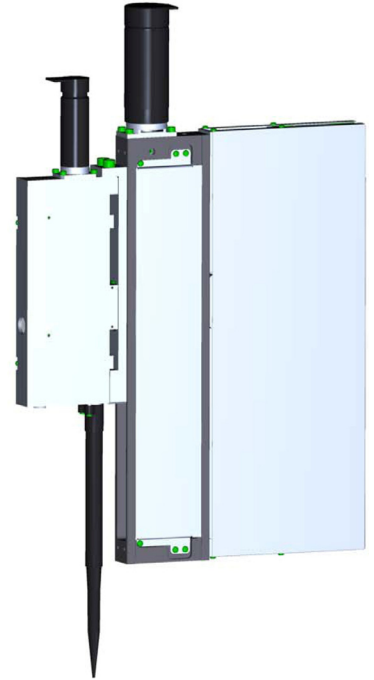
Pipetting Specification**:	Volume	Precision (CV)	Accuracy (R)
	10 μ L	5 %	\pm 5%
	100 μ L	2 %	\pm 5%
	1000 μ L	1 %	\pm 5%

Supported Conformity: Low Voltage Directive 2006-95-EC, classified as general laboratory equipment, not explicitly validated for in-vitro diagnostics

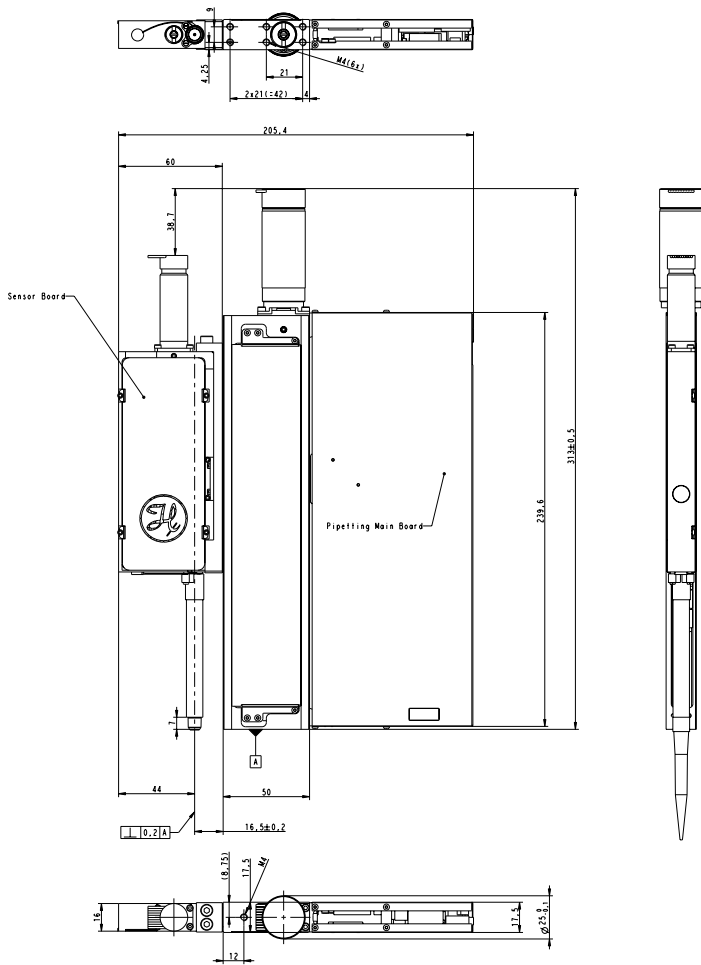
* Qualitative pipette monitoring guarantees proper pipetting. Air pressure in the tip is monitored during aspiration and dispense and then compared to a successful pipette cycle. Any deviation from the standard cycle will be flagged as an error.

** Values are associated to the following terms:

- Sample: HAMILTON Verification Solution
- Pipette Tip Type: New 1200 μ L HAMILTON ZEUS Verification Tip (conductive) for each measurement
- Verified by: 12 measurement points per volume and pipetting module

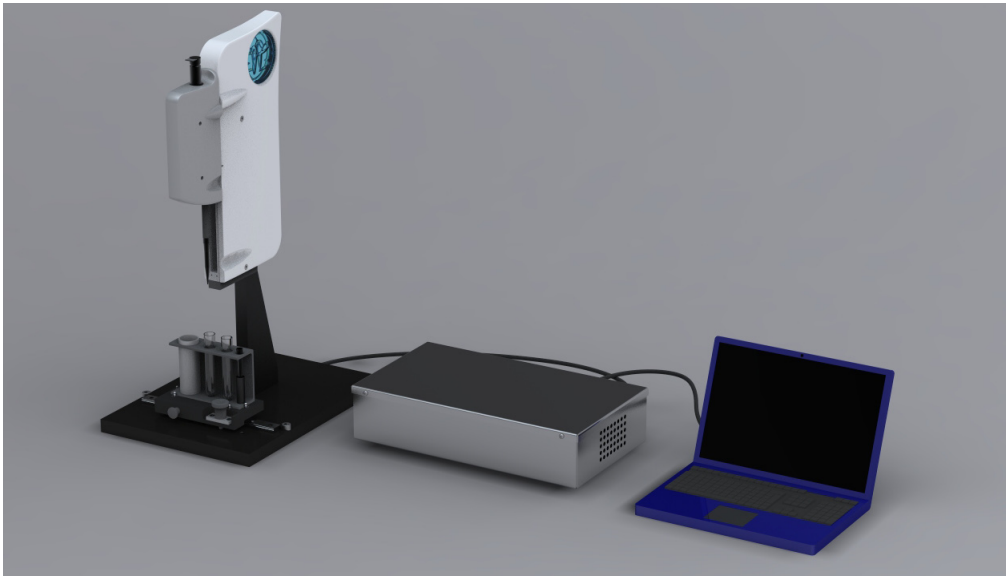


Dimensions (mm)



Ordering information

Part Number	Description
800 100	ZEUS Pipetting Module
202 998	ZEUS Pipetting Test Platform
800 106	1200 µL HAMILTON ZEUS Verification Pipette Tips (8 racks, 140 tips per rack)



ZEUS Pipetting Test Platform (PN 202 998): Includes ZEUS Pipetting Module, holder, electronic box, cables, software CD and manual



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