

Report of Calibration

MANUFACTURER: Fluke Biomedical MODEL NUMBER: IDA-6/M SERIAL NUMBER: 6839039 TECHNICIAN: Frida Lindgren TEMPERATURE: (15 - 25) °C HUMIDITY: <80 %rh		CUSTOMER INFORMATION Homeland RIYADH REPORT NUMBER: 2025000057 ISSUE DATE: 30 MAJ 2025 CALIBRATION DATE: 29 MAJ 2025 AS-FOUND STATUS: N/A AS-LEFT STATUS: Pass
---	--	---

This calibration report confirms that the measurements are traceable to the International System of Units (SI) through recognized national metrology institutes.

Reproduction of this report, in part or in full, is prohibited without written permission from Fluke Biomedical or Unfors RaySafe AB, respectively.

Measurement Uncertainty:

All measurements have inherent uncertainties, which are expressed in base units on the following pages. These uncertainties are reported according to EA-4/02 and JCGM 100:2008 guidelines. "Expanded uncertainty" refers to the standard uncertainty multiplied by a coverage factor ($k=2$), indicating a 95% probability that the true value lies within the stated range.

Compliance with Specification:

This report uses a specific decision rule to determine if the calibrated item meets its specifications, considering measurement uncertainty. This rule is based on ILAC-G8:09/2019 and uses a 95% coverage probability for the expanded uncertainty.

Decision Rule:

To determine compliance, a guardband is calculated and compared to the measurement error (the difference between the measured value and the reference value).

Guardband Calculation: The guardband (G) is calculated using the root-difference-square (RDS) method:

$$G = \sqrt{S^2 + U_{95\%}^2}$$

where:

- S is the specification limit
- $U_{95\%}$ is the expanded uncertainty at a 95% confidence level

This decision rule applies when comparing the measured value to a product specification.

APPROVED BY:



Production Operator

STANDARDS USED

Serial Number	Description	Due Date
1122041	Infusion Pump	12 aug 2025
56330004	Pressure Measurement Module	23 okt 2025

MODEL NUMBER: **IDA-6/M** SERIAL NUMBER: **6839039**
 TEST RESULTS: **AS LEFT**

Test Description	Expected Value	Measured Value	Expanded Uncertainty	Lower Limit	Upper Limit	Units	Status
Device Under Test: IDA-6/M, SN:6839039, Firmware Rev:3.38							
PRESSURE VERIFICATION							
2500 mmHg (Inlet)	2500,00	2499,4	3,2e+00 mmHg	2470,0	2530,0	mmHg	Pass
2500 mmHg (Outlet)	2500,00	2492,5	5,6e+00 mmHg	2465,0	2535,0	mmHg	Pass
1000 mmHg (Inlet)	1000,00	999,9	1,3e+00 mmHg	985,0	1015,0	mmHg	Pass
1000 mmHg (Outlet)	1000,00	994,1	3,2e+00 mmHg	980,0	1020,0	mmHg	Pass
500 mmHg (Inlet)	499,99	499,8	8,7e-01 mmHg	490,0	510,0	mmHg	Pass
500 mmHg (Outlet)	499,99	493,8	3,3e+00 mmHg	485,0	515,0	mmHg	Pass
200 mmHg (Inlet)	199,99	200,9	5,4e-01 mmHg	193,0	207,0	mmHg	Pass
200 mmHg (Outlet)	199,99	196,6	1,3e+00 mmHg	188,0	212,0	mmHg	Pass
100 mmHg (Inlet)	100,00	100,8	6,7e-01 mmHg	94,0	106,0	mmHg	Pass
100 mmHg (Outlet)	100,00	96,3	1,8e+00 mmHg	89,0	111,0	mmHg	Pass
-100 mmHg (Inlet)	-100,00	-99,1	6,8e-01 mmHg	-106,0	-94,0	mmHg	Pass
-100 mmHg (Outlet)	-100,00	-103,6	2,0e+00 mmHg	-111,0	-89,0	mmHg	Pass
-200 mmHg (Inlet)	-200,00	-199,1	6,8e-01 mmHg	-207,0	-193,0	mmHg	Pass
-200 mmHg (Outlet)	-200,00	-202,4	2,4e+00 mmHg	-212,0	-188,0	mmHg	Pass
VOLUME & FLOW VERIFICATION							
5 mL @ 100 mL/h	5,0000	5,005	3,6e-02 mL	4,947	5,053	mL	Pass
5 mL @ 100 mL/h	100,0000	100,052	7,1e-01 mL/h	98,995	101,005	mL/h	Pass
20 mL @ 1000 mL/h	20,0000	20,005	1,2e-01 mL	19,600	20,400	mL	Pass
20 mL @ 1000 mL/h	1000,0000	999,678	5,9e-01 mL/h	980,000	1020,000	mL/h	Pass
100 mmHg Backpressure Test							Pass
10 mL @ 300 mL/h	10,0000	9,965	6,2e-02 mL	9,897	10,103	mL	Pass
10 mL @ 300 mL/h	300,0000	298,957	6,4e-01 mL/h	296,995	303,005	mL/h	Pass

*** END_OF_REPORT ***