

Technical data

IDA-6 Infusion Device Analyzer

The future of biomedical testing is now: introducing the revolutionary IDA-6 Infusion Device Analyzer, enabled with our OneQA workflow automation software to help simplify the biomedical testing process.

The IDA-6 features our proprietary workflow automation software OneQA. The groundbreaking combination is the solution to common pain points including the length of time spent testing and documenting results. Along with the ability to customize pre-built procedures on IDA-6, results are automatically saved on the device with the option of syncing to your PC simultaneously. Completing your PMs is simple with our straightforward user interface.



Key features

- OneQA-enabled workflow automation simplifies testing, enhancing accuracy and efficiency
- Achieve low flow stable readings 100x faster than IDA-5
- IntelliFlow Technology offers no mess testing with water recirculation system
- No priming required between tests or repriming after initial setup
- Test up to four infusion pumps simultaneously
- Modular design allows for flexibility; users may add additional channels as needed
- Removable channels simplify calibration process and avoid device downtime
- Fully compliant with IEC60601-2-24 standard
- Meets or exceeds most OEM low flow accuracy
- Enhanced resolution by 60x vs. IDA-5
- Flow and volume are 100x more accurate vs. IDA-5
- Simply and quickly customize pre-built test procedures for any infusion device
- Wireless capability allows you to run test procedures in the field and automatically sync results
- Large 10" touchscreen with an intuitive user interface
- Ability to upload pictures, instructions, and text to procedures
- Global support network to support customers anywhere, anytime
- Immediate results with as little as < 0.0003mL
- Verifies PCA, bolus, and occlusion functionality



Integrated OneQA workflow automation software allows you to:

- Improve productivity, efficiency and accuracy by automating the execution and analysis of tests
- Standardize testing procedures across all technicians – have everybody work like your senior technicians
- Ditch the laptop – execute OneQA right from the IDA-6, keeping you mobile
- Reduce confusion around related to connections and testing with onboard guidance instructions
- Reduce onboarding time standardized test procedures and an intuitive user-friendly interface
- Build, organize and share reports and data on a centralized platform
- Achieve compliance with regulatory agencies with improved traceability
- Collaborate real-time with your team on procedures, data analysis and reporting
- Lower the cost of and improvement to Quality Assurance programs



flukebiomedical.com/oneqa

Specifications

Flow and volume	
Mean flow range	0 – 3000 mL/h (steady flow), 0 – 1500 mL/h (peristaltic flow)
Mean flow resolution	0.001 mL/h
Mean flow accuracy (after > 0.1 mL and > 10s)	± (1 % + 0.005 mL/h) at < 500 mL/h, otherwise ± 2 %
Volume range	0 – 100 000 mL
Volume resolution	0.001 mL
Volume accuracy (after > 0.1 mL and > 10s)	± (1 % + 0.003 mL) at < 500 mL/h, otherwise ± 2 %
Time range	0 s – 1000 h
Time accuracy	± (0.2 % + 0.2 s)
Time trig volume	≤ 3 µL
Graphs	Instant flow and mean flow with up to 1 s resolution (gradually reduced after 1 hour), IEC 60601-2-24 trumpet curve
Occlusion	
Peak pressure range	-200 – +2600 mmHg (-3.8 – +50 psi)
Peak pressure resolution	1 mmHg (0.01 psi)
Peak pressure accuracy	± (1 % + 5 mmHg (0.1 psi)), 50 ms moving average
Time to peak range	0 s – 1000 h
Time to peak accuracy	± (0.2 % + 0.05 s)
Time to alarm	0 s – 1000 h
Time to alarm accuracy	Operator dependent, manual stop button
Residual volume accuracy	± (2 % + 0.01 mL)
Graphs	Pressure with up to 50 ms resolution (gradually reduced after 3 minutes)
Bolus and PCA	
Bolus volume range	0.01 – 100 000 mL
Bolus volume accuracy (after > 1 s)	± (2 % + 0.01 mL)
Bolus flow range	10 × base flow – 3000 mL/h (steady flow), 10 × base flow – 1500 mL/h (peristaltic flow)
Bolus flow accuracy (after > 0.1 mL and > 10 s)	± (1 % + 0.005 mL/h) at < 500 mL/h, otherwise ± 2 %
Base flow range	1 – 100 mL/h
Base flow accuracy (after > 0.1 mL)	± (1 % + 0.005 mL/h)
Bolus duration range	0 s – 1000 h
Bolus duration accuracy	± (0.2 % + 0.2 s)
Graphs	Instant flow with up to 1 s resolution (gradually reduced after 1 hour), numbered boluses

Specifications (continued)

Back pressure	
Range	-200 – +600 mmHg (-3.8 – +11.6 psi)
Additional flow uncertainty	$\pm \Delta P \times 0.001 \text{ mL/h}$
Additional volume uncertainty	$\pm (\text{test duration in hours}) \times \Delta P \times 0.001 \text{ mL}$
<i>Where ΔP is the average pressure difference between inlet and outlet, in mmHg.</i>	
Measurement units	
Pressure	mmHg, kPa, psi, bar
Volume	mL, g (1 mL = 0.998 g)
General	
Safety standard	Complies with IEC 61010-1:2010, pollution degree 2
Infusion device standard	For testing according to IEC 60601-2-24:1998
EMC standard	Complies with IEC 61326-1:2012
Dimensions (w × d × h)	95 mm × 210 mm × 260 mm (11.6 in × 8.3 in × 10.1 in)
Weight	3.8 kg (8.4 pounds)
Operating temperature	+15 – +30 °C (+59 – +86 °F)
Storage temperature	-20 – +70 °C (-4 – +158 °F), when drained
Atmospheric pressure	70 – 107 kPa, altitude up to 3000 m (10 000 ft)
Humidity	< 90 % relative humidity, non-condensing
Power	19 V DC, 3 A
Connectivity	1 × USB-C for PC communication, 3 × USB-A for peripherals
Display	10-inch multi-touch, 800 × 600 pixels
Data storage	> 10 000 measurements
Channels	1 to 4, depending on configuration

Ordering information

Models/descriptions

5329703	IDA-6/1, One-Channel Infusion Device Analyzer
5329715	IDA-6/2, Two-Channel Infusion Device Analyzer
5329726	IDA-6/4, Four-Channel Infusion Device Analyzer
5329817	IDA-6/M, Single Infusion Device Analyzer Channel Module

Standard accessories

5589148	Power Supply, IDA-6
5589153	IDA-6 Adapter Kit (US, EUROPE, AUSTRALIA AND UK)
5589166	USB-C Data Transfer Cable
5589175	Silicone Tubing

Optional accessories

5583523	Barcode Scanner, C750, Corded/Bluetooth/2.4G Wireless
5579584	Wi-Fi Adapter Connector, Micro-Ribbon, USB Adapter, Wi-Fi USB Dongle

About Fluke Biomedical

Fluke Biomedical is the world's leading manufacturer of quality biomedical test and simulation products. In addition, Fluke Biomedical provides the latest medical imaging and oncology quality-assurance solutions for regulatory compliance. Highly credentialed and equipped with a NVLAP Lab Code 200566-0 accredited laboratory, Fluke Biomedical also offers the best in quality and customer service for all your equipment calibration needs.

Today, biomedical personnel must meet the increasing regulatory pressures, higher quality standards, and rapid technological growth, while performing their work faster and more efficiently than ever. Fluke Biomedical provides a diverse range of software and hardware tools to meet today's challenges.

Fluke Biomedical regulatory commitment

As a medical test device manufacturer, we recognize and follow certain quality standards and certifications when developing our products. We are ISO 9001 and ISO 13485 medical device certified and our products are:

- CE Certified, where required
- NIST Traceable and Calibrated
- UL, CSA, ETL Certified, where required
- NRC Compliant, where required

Fluke Biomedical

We empower our everyday heroes to focus only on protecting lives.

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