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Технические характеристики на анализаторы инфузионных устройств IDA-6 компании **FLUKE BIOMEDICAL**



The IDA-6 comes integrated with . The power of OneQA delivers workflow automation to help simplify the biomedical testing process. Users can customize pre-built procedures on IDA-6, and results are automatically saved on the device with the option of syncing to your PC simultaneously. The intuitive user interface empowers all levels of a biomed team to standardize and streamline report integration reducing human error. And it's portable for effortless transport.

IDA-6 Infusion Device Analyzer

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

The IDA-6 is 100x faster than the IDA-5 and with access to our proprietary OneQA software onboard, testing and documenting results is fully automated saving you valuable time while increasing accuracy. OneQA allows users 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 have been simplified with our intuitive user interface.

Model Name	Part Number	Description
IDA-6/1	5329703	One-Channel Infusion Device Analyzer
IDA-6/2	5329715	Two-Channel Infusion Device Analyzer
IDA-6/4	5329726	Four-Channel Infusion Device Analyzer
IDA-6/M	5329817	Single Infusion Device Analyzer Channel Module

Key Features

- OneQA-enabled workflow automation simplifies testing, enhancing accuracy and efficiency
- Achieve low-flow stable readings 100x faster than IDA-5
- IntelliPump Technology offers no mess testing with a 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 the calibration process and eliminate 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 0.003mL
- Verifies PCA, bolus, and occlusion functionality



Groundbreaking Infusion Pump Testing Technology

Experience the future of with our next-gen IDA-6 Infusion Device Analyzer. This high-tech device offers customization and convenience without complications.

It's evolutionary.

The IDA-6 Infusion Device Analyzer is at the forefront of a new era of innovation in the medical device testing industry. The device is the first-ever Fluke Biomedical device to be OneQA-enabled. Now you can ditch the laptop and seamlessly conduct automated testing directly from the IDA-6. The IDA-6 supports offline mode, allowing you to test without being connected to the internet. When connected, the IDA-6 will automatically sync test results to your PC, making to your CMMS easier, improving traceability, and standardizing your test procedures reducing human error.

It's easy.

Ease of use is a key feature of the IDA-6. We listened to the challenges you face while completing infusion pump testing and developed the IntelliPump™ Technology for the IDA-6 Infusion Device Analyzer in response. This technology allows users to recirculate water during testing without the need to prime, eliminating unnecessary headaches and complexities. This feature, combined with our user-friendly workflow automation software and intuitive user interface, makes it even easier to set up and complete comprehensive testing in minutes.





It's efficient.

Designed with time-saving capabilities, IDA-6 is engineered with flexibility in mind. The modular design provides more versatility, allowing for each individual channel to be removed for service or calibration. This eliminates downtime during the testing process, meaning you no longer need to send off an entire analyzer for maintenance. Instead, when a channel needs , the remaining channels can continue functioning uninterrupted.

It's essential.

The IDA-6 takes medical device testing to a new level of ease and convenience. Testing doesn't have to be demanding. Our technology makes it simple to get the job done efficiently and accurately, so you and your organization can focus on what you do best: protecting lives. Our products have been entrusted by biomedical professionals worldwide when it comes to infusion pump testing for decades. Bring the ease and power of the IDA-6 Infusion Device Analyzer to your organization today.



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)	$\pm (1 \% + 0.005 \text{ mL/h})$ at < 500 mL/h, otherwise $\pm 2 \%$
Volume range	0 – 100 000 mL
Volume resolution	0.001 mL
Volume accuracy (after > 0.1 mL and > 10s)	$\pm (1 \% + 0.003 \text{ mL})$ at < 500 mL/h, otherwise $\pm 2 \%$
Time range	0 s – 1000 h
Time accuracy	$\pm (0.2 \% + 0.2 \text{ s})$
Time trig volume	$\leq 3 \mu\text{L}$
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	$\pm (1 \% + 5 \text{ mmHg (0.1 psi)})$, 50 ms moving average
Time to peak range	0 s – 1000 h
Time to peak accuracy	$\pm (0.2 \% + 0.05 \text{ s})$
Time to alarm	0 s – 1000 h
Time to alarm accuracy	Operator dependent, manual stop button
Residual volume accuracy	$\pm (2 \% + 0.01 \text{ mL})$
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)	$\pm (2 \% + 0.01 \text{ mL})$

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

Back pressure

Range	-200 – +600 mmHg (-3.8 – +11.6 psi)
Additional flow uncertainty	± $\Delta P \times 0.001$ mL/h

Additional volume uncertainty	$\pm (\text{test duration in hours}) \times \Delta P \times 0.001 \text{ mL}$
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Where ΔP is the average pressure difference between inlet and outlet, in mmHg.

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)	295 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

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