FLUKE

Biomedical

IDA-5 Infusion Device Analyzer

Fast. Accurate. Proven.

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Channel 1	Channel 2	Channels Channel 3	Channel 4
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SetUp	SetUp	SetUp	SetUp
Flow	Flow	Flow	Flow
Occlusion	Occlusion	Occlusion for Utilities	Occlusion
POWER	4-5 INPUSION DEVIC	SE ANALYZER	

Technical Data

Ensure infusion pumps are tested accurately and quickly with the IDA-5 Infusion Device Analyzer. The IDA-5 is based on sophisticated measurement technology trusted by biomedical professionals around the world for over 20 years. The IDA-5 is a full-featured device that measures instantaneous flow, average flow, occlusion pressure and dual flow based on IEC60601-2-24.

The IDA-5 has built-in automation allowing users to create custom test templates for quick, standardized infusion pump analysis with minimal user intervention. The IDA-5 test automation bundle includes Ansur software for comprehensive testing.

Automated testing allows technicians to set up tests and walk away. It is easy to set up and requires little or no training to use. The IDA-5 can be used to test a wide variety of infusion pumps including volumetric pumps, syringe pumps, PCA pumps, drip-rate pumps, anesthesia pumps and ambulatory pumps. The IDA-5 maximizes productivity with multiple, independent channels for testing up to four infusion pumps at once.

With its built-in memory, the IDA-5 records test results internally, and provides easy-to-read graphs right on the analyzer's screen. Additionally, an auto-start feature simplifies syringe pump testing as well as other tests with long startup times. And the color display is so large numbers can be read from across the room. The IDA-5 also comes with Hydrograph PC software for creating full-color graphs and reports, and is compatible with plug 'n play accessories such as barcode scanners, keyboards and printers.

Key features

- Tests up to four infusion pumps at the same time
- Customizable test templates for quick and standardized testing
- On-board and PC-based automation
- Compatible with virtually any type of infusion device
- Real time snap shots of flow and pressure for immediate issue recognition
- Instantaneous and average flow measurement of up to 1500 ml/hr
- Occlusion pressure measurements to 45 psi
- Single-flow, dual-flow (piggyback) and PCA testing
- Auto-start mode enables unit to begin testing only when fluid is detected to maximize accuracy
- Ability to automatically end flow measurement based on user-defined time, volume or both
- Convenient and easy data entry with plug 'n play, USB compatible keyboard or barcode scanner
- Built-in memory to save test results for printing or downloading to computer
- Optional Ansur automation software completely integrates medical device testing including electrical safety, visual inspection and other performance parameters for total digital data management
- Global support network delivering prompt service worldwide



Specifications

Technical specifications			
Flow rate measurem	ent		
Method	Flow is calculated by measuring volume over time		
Range	0.1 ml/h to 1500 ml/h (2500 ml/h is shown)		
Accuracy	1 % of reading ± 1 LSD for flows of 16 to 200 ml/h for volumes over 20 ml, otherwise 2 % of reading ± 1 LSD for volumes over 10 ml under laboratory conditions. Degassed water at 15 °C to 30 °C (59 °F to 86 °F) is recommended for long tests.		
Max test duration	100 hours		
Volume measuremen	t		
Method	Volume is measured directly by the measuring module in minimum sample sizes of 60 $_{[}1$		
Range	0.06 ml to 9999 ml		
Accuracy	1 % of reading ± 1 LSD for flow rates of 16 ml/h to 200 ml/h for volumes over 20 ml. Otherwise 2 % of reading ± 1 LSD for volumes over 10 ml under laboratory conditions.		
Max test duration	100 hours		
PCA bolus/dual flow	measurement		
Method	See volume measurement above		
Min bolus volume	0.5 ml		
Resolution	60 ul increments		
Max test duration	100 hours		
Pressure measurement			
Method (back pressure and flow test)	Direct measurement of pressure at the inlet port		
Range	O psi to 45 psi or equivalent in mmHg and kPa		
Accuracy	1 % of full scale ±1 LSD under laboratory conditions		
Max test duration	1 hour		
Other specification			
Templates	Predetermined test sequences. Typical capacity 200.		
Storage of results	Test results stored for later viewing, printing or transfer to PC. Typical capacity 250 tests.		
General specifica	itions		
Operating voltage range	100 V ac to 240 V ac		
Supply frequency	50/60 Hz		
Supply power	<50 VA		
Fuses	20 mm T1.6 A H 250 V x 2		
Size (HxWxD)	30 cm x 20 cm x 20 cm (12 in x 8 in x 8 in)		
Weight	3.4 kg (approx) (7.5 lbs.)		
Altitude	0 m to 3000 m (0 ft to 10000 ft)		
Temperature			
Operating	15 °C to 30 °C (59 °F to 86 °F)		
Storage	-20 °C to +40 °C (-4 °F to +104 °F) when drained of all liquid		
Humidity	10 % to 90 % non-condensing		

HydroGraph™ Graphics Software

Use the moving color visuals of HydroGraph to troubleshoot up to four infusion pumps at once. Data is taken directly off the transducer and transmitted to HygroGraph. The flowing graphs provide an electronic means to display, store and recall flow patterns for comparison at a later date. Each test window can display instantaneous and average flow rates, cumulative and bolus volumes, and occlusion pressure.



Ordering information

Models/descriptions

4349304 IDA-5/1 US120V One-Channel Infusion Device Analyzer, US 4349337 IDA-5/1 AUS250V One-Channel Infusion Device Analyzer, Australia 4349343 IDA-5/1 DEN250V One-Channel Infusion Device Analyzer, Denmark 4349355 IDA-5/1 SHK250V One-Channel Infusion Device Analyzer, Shuko IDA-5/1 ISR250V One-Channel Infusion Device Analyzer, Israel 4349362 4349370 IDA-5/1 ITAL250V One-Channel Infusion Device Analyzer, Italy 4349381 IDA-5/1 IND250V One-Channel Infusion Device Analyzer, India 4349396 IDA-5/1 SWZ250V One-Channel Infusion Device Analyzer, Switzerland 4349409 IDA-5/1 UK250V One-Channel Infusion Device Analyzer, UK 4349411 IDA-5/1 BRAZ230V One-Channel Infusion Device Analyzer, Brazil 4349319 IDA-5/2 US120V Two-Channel Infusion Device Analyzer, US 4349427 IDA-5/2 AUS250V Two-Channel Infusion Device Analyzer, Australia 4349430 IDA-5/2 DEN250V Two-Channel Infusion Device Analyzer, Denmark 4349448 IDA-5/2 SHK250V Two-Channel Infusion Device Analyzer, Shuko 4349453 IDA-5/2 ISR250V Two-Channel Infusion Device Analyzer, Israel 4349466 IDA-5/2 ITAL250V Two-Channel Infusion Device Analyzer, Italy 4349475 IDA-5/2 IND250V Two-Channel Infusion Device Analyzer, India 4349482 IDA-5/2 SWZ250V Two-Channel Infusion Device Analyzer, Switzerland 4349494 IDA-5/2 UK250V Two-Channel Infusion Device Analyzer, UK 4349516 IDA-5/2 BRAZ230V Two-Channel Infusion Device Analyzer, Brazil 4349328 IDA-5/4 US120V Four-Channel Infusion Device Analyzer, US 4349525 IDA-5/4 AUS250V Four-Channel Infusion Device Analyzer, Australia 4349533 IDA-5/4 DEN250V Four-Channel Infusion Device Analyzer, Denmark 4349540 IDA-5/4 SHK250V Four-Channel Infusion Device Analyzer, Shuko 4349557 IDA-5/4 ISR250V Four-Channel Infusion Device Analyzer, Israel IDA-5/4 ITAL250V Four-Channel Infusion Device Analyzer, Italy 4349569 IDA-5/4 IND250V Four-Channel Infusion Device Analyzer, India 4349584 4349591 IDA-5/4 SWZ250V Four-Channel Infusion Device Analyzer, Switzerland 4349600 IDA-5/4 UK250V Four-Channel Infusion Device Analyzer, UK 4349617 IDA-5/4 BRAZ230V Four-Channel Infusion Device Analyzer, Brazil

Standard accessories

4418071 Hydrograph Software and Users Manual 4354014 20 ml syringe 4354038 3-way plastic Luerlock 4478942 5-ft plastic drain line 4541948 Micro-90 bottle (225 ml) 4354452 USB data transfer cable

Optional accessories

4354490	Optional miniature keyboard
4354503	Ansur Test Software, IDA-5 plug-in license
4354532	One-channel upgrade option

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 bardware tools.

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