Infutest 2000 Series E

Precision Infusion Device Analyzer

Simultaneously inspect up to four single channel IV pumps or four independent channels of a multi-channel device in just seconds with our Infutest 2000 Series E and optional RSM.

Infutest 2000 Series E is the solution for your device inspection requirements. Conduct the full range of flow, pressure, volume and interval tests on practically any fluid delivery system including single rate, dual rate and patient controlled analgesia (PCA) devices. These tests are performed following easy-to-use manual or autosequence formats using the front panel keypad and graphical display.



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Additionally, via the standard serial port, interface the analyzer to our ES601Plus Automated Safety Analyzer or other test systems such as a medTester 5000C with IVPUMP autosequence option, or to a PC running our Data Transfer Program (DTP), a standard accessory, for automated operation and test data storage.

End-of-Infusion Analysis — Accurate volume-to-be-infused (VTBI) measurements are a snap with Infutest 2000 Series E. End-of-infusion analysis (EIA) calculates the volume infused at the instant the STOP key is pressed or when the autosequence preset test time has elapsed. This computation can be easily verified by checking the full test data log from Infutest 2000 Series E internal memory.

SynchroStart — SynchroStart accurately captures the initial start-up flow dynamics of your IVpump, an invaluable feature when testing pumps with a pulsatile flow pattern. No need toattempt to start both the IV pump and the analyzer at the same time to make this critical measurement — Infutest 2000 does it for you... Automatically!



Expand to Four Channels with our Optional Remote Sensor Module

Remote Sensor Module

Infutest 2000 Series E – Performance Specifications

Single Rate Test (Continuous Flow Conditions)

Flow Measurement

0.1 - 1200 ml/hr Nominal range: Max. flow measurable and displayed: 1700 ml/hr Min. flow measurable and displayed: 0.04 ml/hr Max. display resolution: 0.001 ml/hr

Measuring time: 10 min. at 0.1 ml/hr / 20 sec. max. above 6 ml/hr

Accuracy: Average flow: +/- 1%, 0.1- 1200 ml/hr

Ranges: LOW - 0.1 to 170 ml/h / HIGH - 170 to 1200 ml/h

Range selection: Automatic

Internal nominal effective collection volume:

LOW range: 0.014 ml HIGH range: 1.1 ml

Volume Measurement

0 - 9999 ml, Max. display resolution:0.001 ml, Range:

Accuracy:+/- 1%

Back Pressure Measurement

Range: 0 - 300 mmHg, Zero offset error:+/- 5 mmHg, Display resolution: 1 mmHg, Accuracy:+/- 1% FS, +/- zero offset error

Elapsed Time Measurement

Range: 0 - 100 hours, Display format:hh:mm:ss,

Accuracy:+0/-1second

Pulsatile Flow Conditions

Flow Measurement

Nominal range: 5 - 999 ml/hr

Max. flow measurable and displayed: 1700 ml/hr Min. flow measurable and displayed: 2.75 ml/hr

Max. display resolution: 0.001 ml/hr

Measuring time: 14 min. at 5 ml/hr / 20 sec. max. above

200 ml/hr

Accuracy: Average flow +/- 1%

Range: HIGH range only (internally selected) Internal nominal effective collection volume: 1.1 ml

Volume Measurement

0 - 9999 ml, Max. display resolution: 0.001 ml, Range:

Accuracy:+/- 1%

Dual Rate Test (Continuous Flow Conditions ONLY)

Flow Measurement

Nominal range: 0.1 - 170 ml/hr Max. flow measurable and displayed: 200 ml/hr Min. flow measurable and displayed: 0.04 ml/hr Max. display resolution: 0.001 ml/hr

Measuring time: 10 min. at 0.1 ml/hr / 20 sec. max.

above 6 ml/hr

Accuracy: Average flow: +/- 1% Ranges: LOW range only

Delivery period determination: Automatic

Internal nominal effective collection volume: 0.014 ml

PCA Pump Test (Continuous Flow Conditions ONLY)

Flow Measurement, Bolus Delivery period

0.1 - 170 ml/hr Nominal range: Max. flow measurable and displayed: 200 ml/hr Min. flow measurable and displayed: 0.04 ml/hr Max. display resolution: 0.001 ml/hr Measuring time: 10 min. at 0.1 ml/hr / 20 sec. max.

above 6 ml/hr Average flow: +/- 1% Accuracy: Ranges: LOW range only

Lockout detection: Automatic

Internal nominal effective collection volume: 0.014 ml

Occlusion Pressure Test

Display Units: mmHg, psi / Display resolution:1 mmHg(0.1 psi)

0 - 2586 mmHg(0 - 50 psi) Range:

Measuring time: 2 seconds

Zero offset error: +/- 5 mmHg (0.1 psi) Accuracy:+/- 1% +/- zero

offset error

Lockout Time Measurement

0 - 100 minutes, Display format:mm:ss,

Accuracy: +/- 2 seconds

Nurse Call Detection

Nurse Call signal from pump sampled once per second. Nurse Call signal can be produced by any of: relay contacts, open collector output, TTL output, RS-232 level, or 20 mA

current loop.

Memory Type: NVRAM (battery-backed)

Capacity:

2 channel: 900 flow and 700 pressure measurements per channel 4 channel: 450 flow and 350 pressure measurements per channel

Interface

User Interface: 40-character by 8-line backlit LCD, 4 front panel soft-keys,

Internal beeper, LCD contrast control

Fluid interface: Inputs A & B: Delrin twistlock, self-sealing / Common output A & B: Delrin twistlock

PCA Pump Trigger Outputs:

Mechanical - One 1/4" female stereo phono jack per channel Electrical - Relay contacts rated at 120 VAC, 1 A; normally open

and normally closed contacts available.

Nurse Call Inputs:

Mechanical - One 1/4" female stereo phono jack per channel Electrical - 50K-ohm differential input impedance.

Parallel Port: Centronix standard printer interface, DB-25F

Printer Driver: Epson MX/FX Series, 80 cps ,80 columns and 66 lines / page

Serial Port:

Mechanical - RS-232 / DB-25M

Electrical - RS-232C; bidirectional; CTS handshaking;

9600 baud, 8-None-1

Power Supply: 120 VAC 60 Hz @ 12 W (230/240 VAC 50 Hz Europe/UK)

Environment: 15°C to 40°C, 10% to 90% RH, Indoor Use Only,

Category II Dimensions: 12" W x 12" D x 6" H (30.5 cm W x 30.5 cm D x

15.2 cm H)

Weight: 10 lbs. (4.5 kg)

All specifications subject to change without notice.



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