

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.

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 to attempt 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!



Infutest 2000 Series E

Innovation by design



Remote Sensor Module

*Expand to Four Channels
with our Optional
Remote Sensor Module*

Infutest 2000 Series E – Performance Specifications

Single Rate Test (Continuous Flow Conditions)

Flow Measurement

Nominal range: 0.1 - 1200 ml/hr
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

Range: 0 - 9999 ml, Max. display resolution: 0.001 ml,
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: +/- 1 second

Pulsatile Flow Conditions

Flow Measurement

Nominal range: 5 - 1200 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

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

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
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)
Range: 0 - 2586 mmHg (0 - 50 psi)
Measuring time: 2 seconds
Zero offset error: +/- 5 mmHg (0.1 psi) Accuracy: +/- 1% +/- zero
offset error

Lockout Time Measurement

Range: 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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