

Precision Syringe & Peristaltic Pumps

Syringe Warnings

Syringe Not Captured - The pump will display a syringe icon if the syringe has not been loaded or has been loaded improperly.

Plunger Capture Detection - Audible and visual alarms that warn the users if the syringe plunger is not captured.

Near End of Syringe Warning - When there are 15 minutes remaining before the syringe has to be changed (when running at the displayed rate) the pump will display a warning message and will decrement the remaining time in minutes. Once the syringe is empty, it will sound an audible alarm.

Battery Backup/Operation

Battery Backup - Allows the pump to automatically switch into battery power mode.

Battery Operation - NiCad battery provides 5hrs of power. Recharges in 3 hours at 25C.

Reduce Data Recording Time

Infusion History Log Reduces Data Recording Time - The pump details its operational history by keeping a log of the precise time and nature of all changes and alarms for the current and preceding infusion. The log can be viewed on the screen, printed, or downloaded to a monitor or electronic record-keeping system to simplify record keeping.

Communications

Bi-Directional Serial Communications - The Harvard 2 Syringe Pump can be controlled remotely from a computer for advanced infusion regimens. Conversely, infusion history can be downloaded to a monitor.

Drug Library Software

- Substantially reduces setup time
- Reduces Infusion errors
- The drug being infused is clearly indicated
- The minimum and maximum safety limits of the drug can be preset and infusions held within these limits

The Harvard 2 Syringe Pump has a Drug Library capacity for up to 300 drugs. These drugs can be stored in up to 50 categories.

The user-defined categories can be those most useful for the application: types of drugs like analgesics, cardiovascular or laboratory/researchers names.

For each of the 300 drugs, the Drug Library can store up to 3 concentrations, default units, infusion values, and minimum and maximum safety limits (which can be overridden by the researcher). The same drug can be listed in several different categories with each listing having different default values and safety limits.

The drug library also allows the user to develop a custom drug library for your own laboratory. This is done on your PC and uploaded to the pump via the RS-232 port and accessed at any time direct from the pump display.

Specifications

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|-----------------|---|
| Number of Pumps | 2 independent syringe pumps in the same housing for the delivery of 2 drugs simultaneously |
| User Interface | Display: 4 inch diagonal, backlit active matrix color LCD wide viewing angle user-adjustable brightness; green running, yellow warning, red alarms; screen divided vertically to display information for each pump |
| Infusion Units | $\mu\text{g/hr}$, $\mu\text{g/kg/hr}$, $\mu\text{g/min}$, $\mu\text{g/kg/min}$, mg/hr , mg/kg/hr , mg/min , mg/kg/min , g/hr , g/kg/hr , g/min , g/kg/min , U/hr , U/kg/hr , U/min , U/kg/min |
| Infusion Modes | Continuous Infusion, Continuous Infusion with Bolus Capability, Intermittent (Dose/Time) Infusion |
| Total Infused | Can be displayed in up to 3 sets of units, e.g. ml, μg , and $\mu\text{g/kg}$; can be set to zero any time |

Catalog No.

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Product

Harvard 2 Dual Syringe Pump with Occlusion Detection

Drug Library Software

Calibration Kit