

DIGISPENSE 3020

PROGRAMMABLE LIQUID DISPENSING SYSTEM

FEATURES AND BENEFITS

- electronic volume select
- programmable operating modes
- resolution of 10,000 microsteps
- superior linear flow profile
- non-volatile memory for storage of parameters and up to 32 recipes
- programmable drawback
- accepts closed-contact trigger input, 24VDC logic interface and RS232 serial communication
- password-protected permission levels
- encoder option
- auto line voltage selection (100 to 240VAC, 50/60Hz)
- transferable from benchtop use to fully integrated systems
- one-year warranty
- CE certified

TYPICAL APPLICATIONS

- reagent dispensing
- biosensor manufacturing
- mercury dispensing
- micro volume atomizing
- membrane stripping
- syringe, vial and tube filling
- syringe barrel, stent and needle coatings
- flavor and essence additions
- lubricants
- cyanoacrylate and UV adhesives



digispense 3020 controller module
21cm x 29.2cm x 14.6cm



20 pitch actuator module
26.7cm x 7.6cm x 6.4cm



40 pitch actuator module
22.9cm x 7.6cm x 6.4cm



ISO 9001 CERTIFIED
ISO 13485 CERTIFIED



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The Digispense 3020 is IVEK's low volume, linear flow, single-channel, liquid dispensing system. The system includes three main components; a 3020 Controller module, a 20 or 40 pitch Linear Actuator Module and one of seven positive displacement ceramic pump modules. A major feature of this system is the programmed dispense volume which does not require mechanical calibration. The Digispense 3020 controls each full stroke of the piston to an exceptional resolution of 10,000 microsteps. Operating parameter controls offer separate dispense/meter and prime/load mode rates, forward/reverse, and drawback control.

The controller provides flexible operation and an efficient user interface. It includes two top-level modes of operation; (1) Fluidic Setup Mode with Prime, Bubble Clear and Agitate functions; (2) Production Mode with Dispense, Dispense Minimum Chamber Volume, Meter, Dispense Multichamber, and Meter Multichamber functions. The system can be configured to automatically load on every dispense, when the chamber is empty, or load manually.

Standard features of IVEK's Digispense 3020 controller module include: Contact Closure trigger input, Auxiliary Output, 24VDC Logic interface (for trigger-in, ready-out, fault-out, 3 user selectable inputs, and 2 user selectable outputs) and an RS232 interface. A non-volatile memory allows storage of up to 32 recipes.

PUMP MODULES:

| SIZE | RESOLUTION ($\mu\text{l}/\text{STEP}$) | CHAMBER CAPACITY |
|------|---|---------------------|
| 4A | 0.002 μl | 20 μl |
| 3A | 0.005 μl | 50 μl |
| 2A | 0.010 μl | 100 μl |
| 1A | 0.020 μl | 200 μl |
| B | 0.040 μl | 400 μl |
| C | 0.100 μl | 1000 μl |
| D | 0.200 μl | 2000 μl |



piston/cylinder sets

IVEK's ceramic piston/cylinder modules are extremely hard and resist abrasion, resulting in a system that exhibits little to no wear even after hundreds of millions of cycles. In addition, the ceramics are compatible with most acids and bases. The natural crystalline structure of the ceramics displays zero porosity, which insures zero retention and carry-over of one biological fluid to the next.

PRECISION ENGINEERED FLUIDIC SOLUTIONS SINCE 1979

IVEK Corporation is committed to quality and customer support. Our product has always been relied upon for critical applications and our policy states customer satisfaction as the number one priority. As our customer you will experience exceptional performance and reliability for your most demanding applications. IVEK Corporation is ISO 9001 and ISO 13485 certified.



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