

DIGISPENSE 4000

PROGRAMMABLE LIQUID DISPENSING SYSTEM

FEATURES AND BENEFITS

- Production Modes: Dispense, Meter, Feeder, Maintainer
- Fluidic Setup Modes: Prime, Agitate, Bubble Clear, Prime Reverse
- Volume Units: nanoliters (nl), microliters (μ l), milliliters (ml)
- Configurable drawback to enhance fluidic sheering at tip
- Recipe storage of up to 32 dispensing profiles
- Password protected permission levels to limit operator access to dispensing profile
- EtherNet/IP™ and ODVA Conformance™
- EtherCAT®, PROFINET®
- CE certified
- One year warranty

PANEL MOUNT CONTROLLER FEATURES

- Compact footprint for mounting multiple controllers into a cabinet
- Flexible 48VDC input power, filtered and reverse polarity protected
- Multi-color LEDs for quick identification of status

BENCH TOP CONTROLLER

- Compact Benchtop-friendly enclosure with adjustable bail and non-slip feet
- LCD Display and Operator Interface
- 4-20mA Analog Inputs/Outputs
- Configurable PLC IO points
- Configurable Contact Closure Inputs and High Current Auxiliary Outputs
- Integrated Liquid Eye capability
- Isolated 24VDC 1.5A power supply for customer use
- Universal AC power supply 100-240VAC 50/60Hz
- Optional fieldbus EtherNet/IP™, EtherCAT®, RS232, USB, PROFINET®
- TÜV listed



DigiSpense® 4000 panel mount controller module
7.6 cm x 19 cm x 14.3 cm



DigiSpense® 4000 bench top controller module
21cm x 29.2cm x 14.6cm



ISO 9001 CERTIFIED
ISO 13485 CERTIFIED



IVEK CORPORATION • 10 FAIRBANKS ROAD • NORTH SPRINGFIELD • VERMONT • 05150 • USA
TEL: (01) 802-886-2238 • FAX: (01) 802-886-8274 • TOLL FREE IN NORTH AMERICA: 800-356-4746

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PROGRAMMABLE LIQUID DISPENSING SYSTEM

The DigiSpense® 4000 is IVEK's latest, high-performance, single-channel dispensing system combining both Rotary and Linear functionality into one controller. The DigiSpense® 4000 is capable of precise and repeatable fluid dispensing volumes at rates of 2nl per second to 300 mL per second. Dynamic microstepping technology significantly improves pump performance at low dispense rates. Production modes, including Dispense, Meter, Feeder, and Maintainer, offer unique dispensing profiles for a wide range of applications. Fluidic Setup modes, including Prime, Agitate, Bubble Clear, and Prime Reverse, prepare the fluid path for reliable, repeatable dispensing and reduced maintenance. The DigiSpense® 4000 controller is simple to operate out of the box. Parameter configuration screens allow for easy creation of unique dispensing profiles. Improved integration to PLC control systems, facilitated by Ethernet fieldbus communication options and web browser services, reduces development time and cost.



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



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

Panel Mount Model

The DigiSpense® 4000 Panel Mount controller has all of the dispensing features listed above but without the added size required for the power supply and HMI. This compact footprint, along with minimal side-to-side clearances, allows many controllers to fit into their own cabinet, or to be combined with other control equipment in an existing cabinet. Terminal block style connectors allow the cables to be passed through conduits during installation, while maintaining quick-disconnection. Two Ethernet ports enable the fieldbus to be wired in either a star or ring topology. Multi-color LEDs provide the user with local feedback of the status of the network, dispensing state, and power supply.



MicroSpense® ap dual end motor/base/pump
6.9cm x 19.5cm x 10.7cm

Benchtop Model

The DigiSpense® 4000 Benchtop controller has all of the dispensing features listed above but with a fully enclosed power supply and HMI for benchtop or stand-alone use. A front-panel LCD screen with pushbuttons allows full configuration of dispensing profiles and start/stop of dispensing operations. Contact-closure IO on the rear panel provides both control and status of dispensing operations using such devices as foot pedals and totalizers/counters. Optional Ethernet fieldbus communications for data acquisition or PLC integration is available.



installation example for
DigiSpense® 4000 panel mount

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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