



ADVANCED LIQUID HANDLING, INC.

Electronics

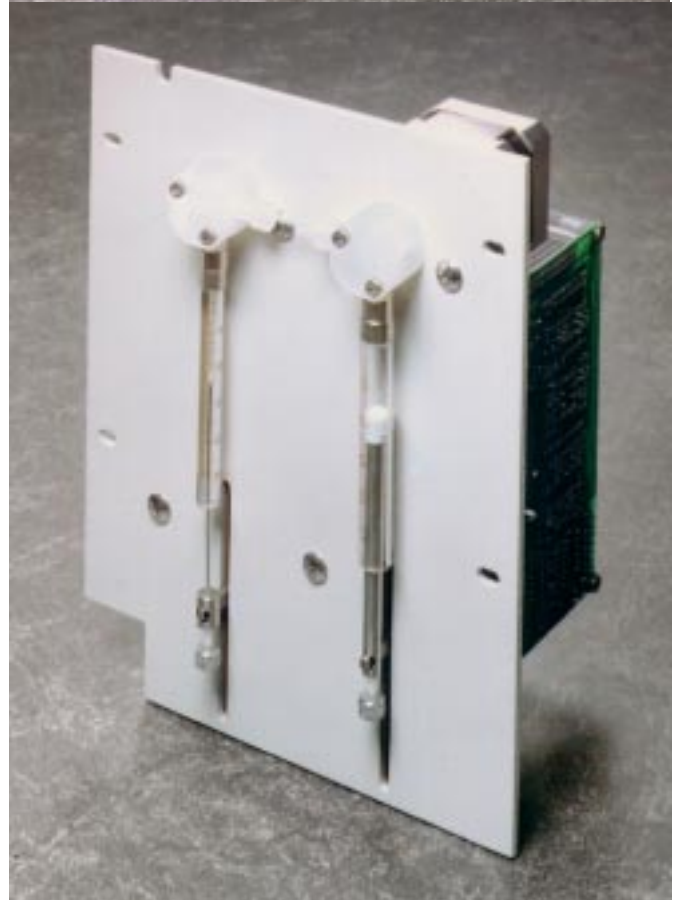
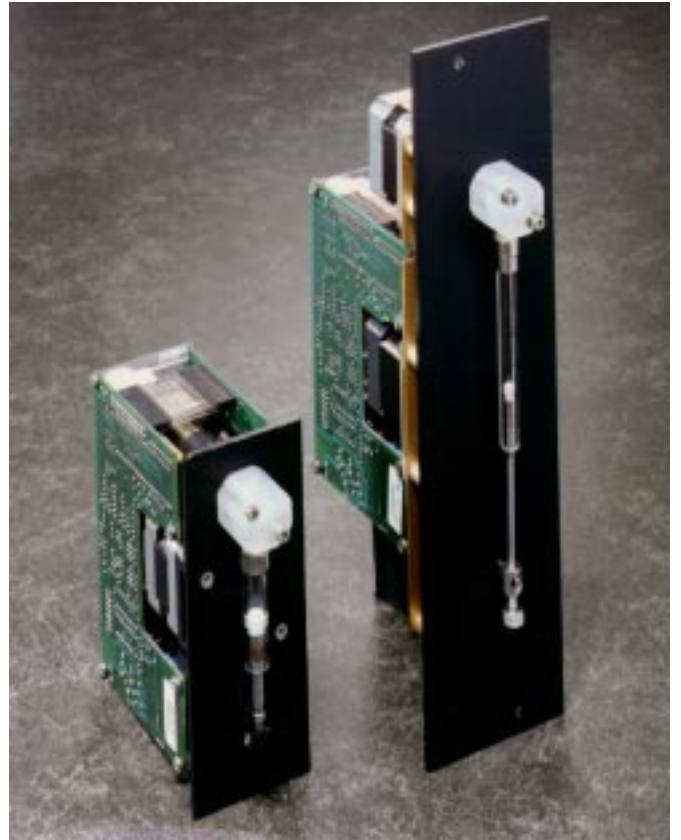
Our new electronics modules emulate either Hamilton ML-OEM® or Cavro XL3000® protocol. All you will need is 24Volts and an RS-232 connection to your computer. It is sized to conveniently fit on either of our MBP units, the **MBP2000** and the new **MBP.5**.

The electronics module is made in two sections in order to accommodate both the packaging requirements and to facilitate customization. Only a single power input of 24 Volt AC or DC is required. The control is RS-232 [TX, RX & Gnd]. Up to sixteen circuit boards may be controlled from a single communication port.

The controller board provides the power regulation, communication, position sensing, program storage and processing. Currently we have two emulations available for compatibility with Hamilton® and Cavro® protocols.

The driver board contains two, three, or four Bi-Polar stepper motor driver circuits.

Our solution to the Pipetter-Diluter electronics is an example of cost effective customization. Even though there are two syringe drives, all of the commands and operations can be handled by one set of boards. It is simply a matter of programming changes. This saves the customer and ALH time and money.



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ADVANCED LIQUID HANDLING, INC.

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