Pump 11 Elite/Pico Plus Elite
OEM Open Frame Syringe Pumps
(syringes not included)

Please download the complete manual under the pumps/liquid handling section of our website by clicking here or by visiting https://www.harvardapparatus.com/technical-support/manuals.

Unpacking the System

Your Pump 11 Elite/Pico Plus Elite (model dependent) is packed in a shipping carton that is specifically designed to provide maximum protection to the syringe pump during transportation and normal handling conditions. Upon receipt, the carton should be examined for any external damage resulting from shipment.

Open the carton and carefully remove the syringe pump and inspect the unit for any apparent damage. A 9-Pin D-Sub connection assembly is included with the syringe pump. Save the carton and packing materials for future transportation and shipping requirements. Check the packing slip to ensure that all items ordered and listed are included in the shipment. Inform Harvard Apparatus immediately if any parts are missing or damaged.

Installation

Once you have verified that the syringe pump mechanism has not sustained any obvious damage in shipment, proceed with the installation. Please plug the connector end into the RS-232 connection shown in the picture on page two of this Quick Start Guide. This cable is only required if RS-232 communication is needed through a 9-Pin D-Sub connection.

Place the syringe pump in a location that is a dry, level, sturdy surface free from extremes in ambient temperature, dust or chemical exposure. Allow the device to equilibrate to room temperature. 24 V DC is required to run the syringe pump. A power supply is not included with the syringe pump. Please contact Harvard Apparatus to order a power supply.

The syringe pump is controlled by pump commands and/or I/O logic. Please download the full Pump 11 Elite OEM Module Series User's Manual for pump commands and additional control instructions.

Harvard Apparatus Pump Controller

RS-232 Installation

Please plug the connector end into the RS-232 connection shown in the picture on page two of this Quick Start Guide. This cable is only required if RS-232 communication is needed through a 9 – Pin D-Sub connection.

RS-232 Adapter Cable Connection

RJ 11 Adapter Connection

Foot Switch

I/O Connector

USB Serial Input (Type B)

RS-485 Out Connection (Pump to Pump)

RS-485 In Connection (Pump to Pump)

Power Source Switch*

DC Power Input

*Power Source - When powering a pump in a chain through an RS-485 cable, toggle switch to down position, toward board. Only one pump can be powered from master through RS-485. When powering through DC power supply, toggle switch to up position, away from board.