

## Selecting Pump PCBAs for AccuPump with Valve and BasePump with or without valve

### Motor/Driver PCBA

A Motor/Driver PCBA is supplied on every AccuPump with Valve (APV) module. This is the primary difference between the BasePump and BasePump with Valve (BP and BPV) and the APV module. This PCBA provides all appropriate drivers and electronics for the motors and sensors contained on the pump and valve modules. It is designed specifically to interface with the Logic PCBA.

### Logic PCBA (Catalog# 898)

The Logic PCBA can be used to control up to four APV modules. As the number of modules increases, flexibility to communicate with individual modules decreases.

When using Logic PCBAs:

- One pump will always require a Logic PCBA.
- Two pumps can be given discrete commands within a single program string if moving simultaneously.
- Three and four pumps driven simultaneously must be given identical syringe movement commands.

### 24-Volt Regulator PCBA (Catalog# 897)

The 24-Volt Regulator PCBA is used when you want to provide only 24 volts to run an APV module. It is particularly useful when replacing existing pump modules that use only 24 volts. One regulator PCBA can be used for up to four APV modules. This must be used with a Logic PCBA.

### Power Supply PCBA (Catalog# 899)

The Power Supply PCBA is specifically designed to provide safe power for up to four APV modules running simultaneously. It is ideal for Research and Development use in prototype systems, yet economical enough for production instruments.