

# D-Series and HL-Series Syringe Pump Controller Versions

## How to Distinguish Between Versions

### Overview

The D-Series and H-Series Syringe Pump Controller designs have undergone several updates. While old or new controllers work with Isco pumps, some operating and maintenance procedures for the current controller are different from those for the legacy controller. To ensure that you are following the correct procedures, you must know which controller you are using.

Where procedural differences occur, the [Syringe Pump Technical Bulletins](#) available on our web site distinguish the two types as the “**legacy**” and “**current**” controller versions.

Pump systems using the legacy controller require a different user manual than pump systems using the current controller.

- D-Series Legacy Controller:  
Manual #60-1243-766
- D-Series Current Controller:  
Manual #60-1243-962
- HL-Series Legacy Controller:  
Manual #60-1263-015
- HL-Series Current Controller:  
Manual #60-1243-997

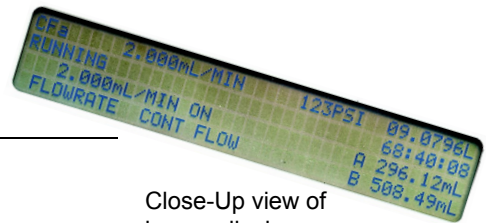
This bulletin explains how to tell the two controllers apart, and should always be referenced before servicing or operation if the controller version is in question.

### Differences in Appearance

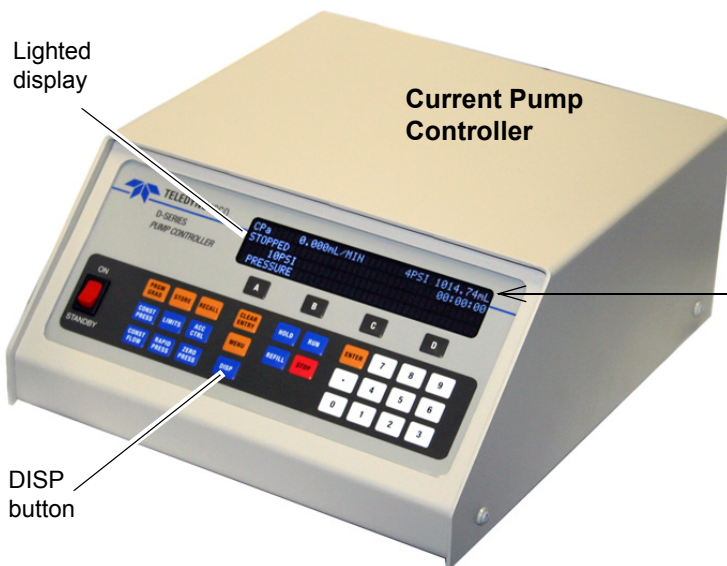
Systems using the updated pump controller are identified by the lighted display and the blue Dispense (DISP) button in the fourth row on the control panel.



### D-Series Controllers



Close-Up view of legacy display

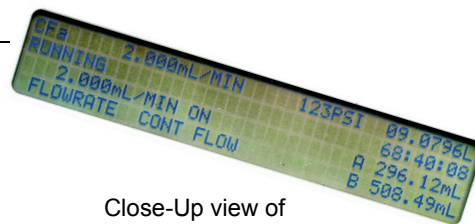


Close-Up view of current display

### Legacy Pump Controller



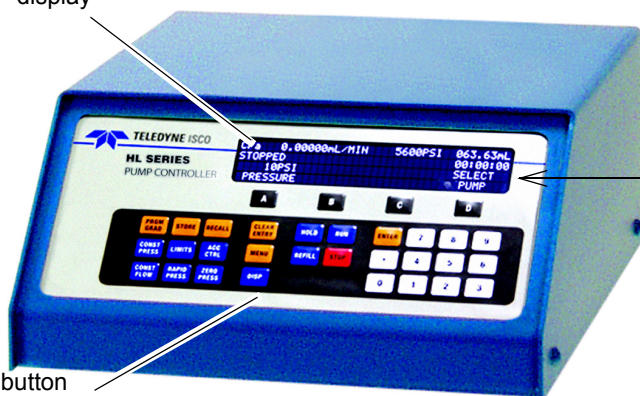
## HL-Series Controllers



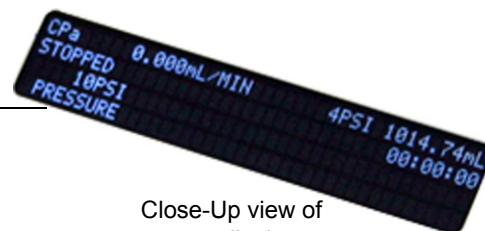
Close-Up view of legacy display

Lighted display

### Current Pump Controller



DISP button



Close-Up view of current display

### Date of Sale

Both controller versions will continue to be manufactured and sold for a period of time, due to some existing customer requirements. Be sure to use the above indicators to identify your controller.

Any D-Series controller that was purchased **before November 2011** is a legacy controller.

Any HL-Series controller that was purchased **before October 2013** is a legacy controller.

### Latest Firmware Features

For systems using the current controller, firmware versions **1.09 (D-Series) or 2.XX.0000 (HL-Series) and later** give your pump system additional capabilities.

### Quad Pump Systems

With this firmware and later, the current controller is capable of operating four connected pumps independently or in pairs of two, connected with air valve packages.

Refer to Technical Bulletin [TB26 D-Series Quad Dual Pump Systems for Continuous Flow and Independent Operation](#) for complete information about setup and operation.

### Modbus RTU Communication

With this firmware and later, the current controller is capable of Modbus communication using RTU protocol over an RS-485 connection.

Refer to Technical Bulletin [TB27 Modbus RTU with Teledyne Isco Syringe Pumps](#) for complete information about Modbus RTU communication.

### Finding Your Software Version

To check your controller's software version, press **MENU**, MORE ( **A** ), and STATUS ( **2** ). The software version will appear in the upper right corner of the run screen.

Contact the Teledyne Isco service department at 800-775-2965 or [IscoService@teledyne.com](mailto:IscoService@teledyne.com) for assistance in obtaining the correct firmware for your pump application.

### Teledyne Isco

P.O. Box 82531, Lincoln, Nebraska, 68501 USA  
 Toll-free: (800) 775-2965 • Phone: (402) 464-0231 • Fax: (402) 465-3001  
 E-mail: [IscoService@teledyne.com](mailto:IscoService@teledyne.com)

Teledyne Isco is continually improving its products and reserves the right to change product specifications, replacement parts, schematics, and instructions without notice.

