

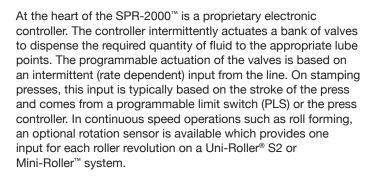
## **SPR-2000™**

# Programmable Fluid Controller

# Full-Featured Programmable Control

The SPR-2000™ programmable fluid controller is designed to precisely control lubricant supplied to Unist Uni-Rollers®, Unist spray nozzles, and in-die lubrication points.

- User-friendly controller
- program up to 250 different die sets or jobs
- Alarm monitoring of critical parameters



The SPR-2000™ menu-driven software easily guides the user through the process of creating setups (programs) and saving them to memory. The system can save up to 250 different setups so changing to a new job is as simple as pushing a few buttons.



An optional press control interface takes this functionality one step further, allowing standard press controls to interface directly with the SPR-2000™ and change the setup based on the currently running job.

The SPR-2000™ is also designed to monitor critical parameters such as fluid level, fluid pressure, and flow (optional sensors may be required). It can alert the operator with an audible alarm, a red LED, and even an external alarm relay which can be wired directly to a press control. If unauthorized access to the system settings is an issue, the system can be configured with a custom 4-digit access code. This allows the operator to monitor alarms and recall saved setups, but not modify system settings or create new setups.

## **Specifications**

#### Power supply:

110 VAC, 50/60 Hz or 220 VAC, 50/60 Hz

#### **Control inputs:**

Dry contact (switch closure)
Proximity sensor 10-30 VDC NPN, N.O.
24 VDC option for input #1

#### **Alarm inputs:**

Dry contact (switch closure) Proximity sensor 10-30 VDC NPN, N.O.

#### Flow monitor inputs:

Dry contact (switch closure)
Proximity sensor 10-30 VDC NPN, N.O.

#### **Outputs:**

Same voltage as power supply Maximum power - 10 watts per output Valves: 1-22

#### Alarm relay:

Isolated, non-fused, single pole, double throw; 2 amp load maximum

#### Maximum input rate:

50 cycles/second at 50% duty cycle Minimum contact open or closed time: 10 milliseconds

#### **Alarm inputs:**

Dry contact (switch closure)
Proximity sensor 10-30 VDC NPN, N.O.

#### **Programmable ranges:**

Count (CNT): 0-255 counts Delay (DEL): 0-100 seconds (.010 second increments) Duration (DUR): 0-100 seconds

#### Fuses:

Supply fuse: 2 amp Output fuse: 5 amp

Operating temperature range:

32°-122°F [0°-50°C]

#### Storage temperature range:

-4°-158°F [-20°-70°C]



## **SPR-2000 JR™**

The SPR-2000 JR™ programmable fluid controller is designed as a less costly alternative to the standard SPR-2000™ programmable fluid controller. With many of the same features and functions as its more capable sibling, it can serve as the fluid control system for any application where only two outputs are required.

## **Easy Setup & Configuration**

SPR-2000™ includes many features which make it versatile and easy to use. All operational setup and configuration are done through simple menus which are shown on a high-contrast, 4-Line X 20 character LCD display.

#### Main SPR-2000™ screens:

## ACCESS CODE

Enter New Access Code: 1234 Use Access Code? N Press > for Y/N

Allows the user to set up passwords to control system access.

## **AUTO SETUP**

Enter Maximum Number of Strokes or Cycles per minute: 0\_\_\_

Prompts the user for job specifications and automatically creates a new setup (program) for Uni-Roller® applications.

#### EDIT

SETUP 001 EDIT OUT CNT DEL DUR LWR01 1\_\_ 0\_\_\_ 150 UPR01 1\_\_ .100 .150

Allows the user to modify current setups and program spray nozzles for other auxiliary functions.

#### ALARM

ALARMS (\*=Active) Scroll to View List 01 Low Fluid 02 Low Pressure

Allows the user to monitor all critical system functions.

#### Display alarm screen

Lists all current alarm conditions.

#### Prime button

Press and hold to momentarily actuate all outputs in the current setup which have count (CNT) and duration (DUR) set greater than zero.

#### Display edit screen

Use to enter new setups or edit existing setups.

#### Display run screen

Use to run a saved setup or to view a setup without changing setups.



#### Alarm LED

Illuminates when an alarm condition exists.

#### Display configuration menu

Use at initial set up and to modify system operating parameters.

#### **Enter button**

Use to confirm data entries. Pressing repeatedly returns user to status screen (shown).

## **Options**



#### Pressure switch monitors for low fluid pressure. The switch is adjustable from 3-40 psi [0.21-3 bar] and is factory set at 5 psi [0.34 bar]



Flow sensors monitor each valve to verify fluid flow when the valve is actuated.



Press control interface allows the SPR-2000™ to interface with standard press controllers and automatically run the proper setup when a job is changed at the press controls.



#### Adjustable stand

facilitates convenient, vibration-free mounting. The aluminum extruded legs of the stand also allow easy mounting of a 6 gallon [22 liter] or 15 gallon [56 liter] tank. The hole in the base of the stand is large enough to accept a 3 gallon [11 liter] stainless steel tank

**NEED MORE INFORMATION?** 

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