

**STENNER PUMPS®**



# S SERIES

## PERISTALTIC PUMP

SMART TECHNOLOGY

SIMPLE PROGRAMMING

SOLID CONSTRUCTION

For Demanding Applications

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Inspired By Our Customers Since 1957



**THE S SERIES** INTERFACES WITH PROCESS CONTROL SYSTEMS UTILIZING A 4-20mA OUTPUT SIGNAL AND THREE RELAY OUTPUTS. Built to NEMA 4X for demanding applications. Select from multiple performance indicators and operational modes with intuitive programming and easy navigation. Fine-tune the pump to fit the application; monitor the pump for peace of mind. Prevent unauthorized access to programmed settings with the password protection.

## SMART TECHNOLOGY

### PERFORMANCE INDICATORS

The S Series has programmable performance indicators to communicate the pump status to the operator.

#### INDICATORS All Modes of Operation

**TUBE LEAK** The tube leak function detects solution in the pump head and a tube icon will appear on the display. Set an optional display alarm for TUBE LEAK to blink. Set the pump to stop or continue to run and/or set an optional relay to activate when a leak is detected. When needed, calibrate the sensitivity.

**TUBE TIMER** With the internal tube timer, the operator sets the tube life expectancy in hours and the TUBE CHANGE display alarm will blink when the number is reached.

**STANDBY** The Standby display alarm blinks on the display when the pump is in standby. The Standby input is utilized to remotely start or stop the pump. For example, if the primary S Series encounters a problem, the Standby input transfers operation from the primary S Series to the back-up S Series without interruption.

Additional indicators available in all modes of operation:

**DRIVE FAULT, MODE CHANGE, TRANSFER, REPEAT PULSE, RUN** and **OFF**.

#### INDICATORS Specific Modes of Operation

**HIGH SIGNAL** 4-20mA or 0-10VDC    **HIGH FLOW** Hall Effect or PPM Feed-Variable  
**LOW SIGNAL** 4-20mA or 0-10VDC    **LOW FLOW** Hall Effect  
**SIGNAL OVERRUN** Pulse



## SIMPLE PROGRAMMING

### MODES OF OPERATION

#### Analog Signal Inputs

<b>4-20mA</b>	<ul style="list-style-type: none"> <li>Proportional response to a 4-20mA signal; scalable, invertible.</li> <li>Speed varies to the signal level.</li> </ul>
<b>0-10VDC</b>	<ul style="list-style-type: none"> <li>Proportional response to a 0-10VDC signal; scalable, invertible.</li> <li>Speed varies to the signal level.</li> </ul>

#### Digital Signal Inputs

<b>PULSE</b>	<ul style="list-style-type: none"> <li>Accepts a dry contact or open collector type input signal from a controller or water meter.</li> <li>Activates at the number of pulses received, to run for a set amount of time (batch dosing).</li> </ul>
<b>HALL EFFECT</b>	<ul style="list-style-type: none"> <li>Speed varies according to Hall Effect input from a controller or flow meter.</li> <li>Program is based on meter's K factor, process flow range and desired pump output.</li> </ul>
<b>PPM FEED CONSTANT FLOW</b>	<ul style="list-style-type: none"> <li>Accepts a dry contact or open collector type input signal from a flow switch.</li> <li>Program is based on the process flow rate, chemical concentration, chemical specific gravity and the desired ppm feed rate.</li> </ul>
<b>PPM FEED VARIABLE FLOW</b>	<ul style="list-style-type: none"> <li>Accepts a Hall Effect input from a flow meter.</li> <li>Speed varies to maintain the desired ppm feed rate.</li> <li>Program is based on meter's K factor, process flow range, chemical concentration, chemical specific gravity and desired ppm feed rate.</li> </ul>

#### Manual

<b>MANUAL</b>	<ul style="list-style-type: none"> <li>Speed controlled manually.</li> <li>Adjustable from 0% to 100% in 1% increments.</li> </ul>
<b>7 DAY / 24 HOUR TIMER</b>	<ul style="list-style-type: none"> <li>Program with a clock in real time.</li> <li>Run for a specific day, at a specific time, at speeds from 1% to 100%.</li> <li>24 independent events, any combination of days.</li> </ul>
<b>CYCLE TIMER</b>	<ul style="list-style-type: none"> <li>Run on a repeatable ON/OFF sequence.</li> </ul>

#### Analog Signal Output

<b>4-20mA</b>	<ul style="list-style-type: none"> <li>Produces a non-adjustable, proportional signal corresponding to the speed percentage the pump is running. 4mA=0% &amp; 20mA=100%</li> </ul>
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#### Digital Signal Output

<b>RELAYS</b>	<ul style="list-style-type: none"> <li>Dry contact signal; program normally open or normally closed.</li> <li>Indicate an alarm.</li> <li>Repeat an incoming signal.</li> <li>Transfer operation to another S Series pump in Standby.</li> </ul>
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## SOLID CONSTRUCTION

- Brushless DC motor is equipped with ball bearing support
- Switch mode power supply is energy efficient
- Totally enclosed pump is outdoor rated
- OLED operating display is easy to navigate with intuitive programming
- QuickPro® pump head offers tube replacement without tools
- Splined shaft designed pump head & roller assembly allow smooth installation and replacement
- NEMA 4X, NSF 61 & 372, cULus indoor/outdoor, CE IP65

### Maximum Flow Rates & Pressure Rating

40 gpd, up to 100 psi / 151.4 lpd, up to 6.9 bar

85 gpd, up to 25 psi / 321.8 lpd, up to 1.7 bar

### Voltage

120 VAC, 60Hz

230 VAC, 50Hz

## THE STENNER ADVANTAGE

1. Self-priming against maximum working pressure
2. Can inject off-gassing solutions
3. No vapor lock or loss of prime
4. Easy tube replacement without tools
5. Uniquely manufactured solid one piece tube construction
6. Tube lubrication not required
7. Three point roller design assists with anti-siphoning
8. Output reproducibility
9. Output volume not affected by back pressure
10. Foot, prime or de-gassing valve not required