

### 3.5 SP Ramp Set Up Group

#### Introduction

A *single setpoint ramp* [SPRAMP] can be configured to occur between the current local setpoint and a final local setpoint over a time interval of from 1 to 255 minutes.

**SPRATE** lets you configure a *specific rate of change* for any local setpoint change.

You can also configure a 12-segment program from a *Ramp/Soak profile*.

You can start and stop the ramp/program using the **RUN/HOLD** key.

*PV Hot Start* is standard and means that at power up, the setpoint is set to the current PV value and the Ramp or Rate or Program then starts from this value.

#### Function Prompts

**Table 3-4 SPRAMP Group (Numeric Code 300) Function Prompts**

Prompt		Description	Selection or Range of Setting		Factory Setting
English	Numeric Code		Numeric Code	English	
<b>SP RAMP</b>	301	Single Setpoint Ramp <i>Rate and Program must be disabled</i>	0	DIS	DIS
			1	ENAB	
<b>TI MIN</b>	301	Single Setpoint Ramp Time		0 to 255 Minutes	3
<b>FINLSP</b>	302	Setpoint Ramp Final Setpoint		Enter a value within the setpoint limits	1000
<b>SPRATE</b>	304	Setpoint Rate <i>Ramp and Program must be disabled</i>	0	DIS	DIS
			1	ENAB	
<b>EUHRUP</b>	305	Rate Up		0 to 9999 in Engineering units per hour	0
<b>EUHRDN</b>	306	Rate Down		0 to 9999 in Engineering units per hour	0
<b>SPPROG</b>	307	Setpoint Ramp/Soak Programming <i>Rate and Ramp must be disabled</i>	0	DIS	DIS
			1	ENAB	
<b>STRSEG</b>	308	Start Segment Number		1 to 11	---

*Table continued next page*

## Configuration

Prompt		Description	Selection or Range of Setting		Factory Setting
English	Numeric Code		Numeric Code	English	
<b>ENDSEG</b>	309	End Segment Number		2 to 12 (always end in a soak segment 2, 4, ...12)	0
			2	SOK 2	
			4	SOK4	
			6	SOK6	
			8	SOK8	
			10	SOK10	
			12	SOK12	
<b>RPUNIT</b>	310	Engineering units for Ramp Segments	0	TIME (hours:minutes)	TIME
			1	EU-M (Rate EU/Minute)	
			2	EU-H (Rate EU/Hour)	
<b>RECYCL</b>	311	Number of Program Recycles		0 to 99 recycles	---
<b>SOKDEV</b>	312	Guaranteed Soak Deviation Value		0 to 99 0 = No Soak	---
<b>PG END</b>	313	Program Termination State	0	LAST (Hold at last SP)	---
			1	FSAF (Manual mode/Failsafe)	
<b>STATE</b>	314	Program State at Program End	0	DIS	DIS
			1	HOLD	
<b>ToBEGN</b>	315	Reset Program to the Beginning	0	DIS	DIS
			1	KEY (Keyboard)	
<b>SGx RP</b>		Segment Ramp or Rate Time x = 1 through 11		0-99hours:0-59minutes	---
<b>SG1</b>	316			Engineering Units/minute	
<b>SG3</b>	319			or	
<b>SG5</b>	322			Engineering Units /hour	
<b>SG7</b>	325				
<b>SG9</b>	328				
<b>SG11</b>	331				
<b>SGx SP</b>		Segment Soak Setpoint Value x = 2 through 12		Enter a Value within the Setpoint Limits	---
<b>SG2</b>	317				
<b>SG4</b>	320				
<b>SG6</b>	323				
<b>SG8</b>	326				
<b>SG10</b>	329				
<b>SG12</b>	332				
<b>SGx TI</b>		Segment Soak Duration x = 2 through 12		0-99 Hours: 0-59 Minutes	---
<b>SG2</b>	318				
<b>SG4</b>	321				
<b>SG6</b>	324				
<b>SG8</b>	327				
<b>SG10</b>	330				
<b>SG12</b>	333				