

Appendix C

Summary of switch positions

Positions of switches on Switch Assembly SW1 for feature choices

Switch Position	Feature	Choice	Remarks
SW1-1 OFF ON	PV Start	Equal or Greater Equal or Less	Can be set at any time. When the RDY indicator is lit, closing external contacts causes the program to start at the next set point equal to greater than or less than the PV.
SW1-2 OFF ON	Burnout	Upscale Downscale	Can be set at any time. The PV value goes to the upper or lower limit. The displayed PV value will flash.
SW1-3 OF ON	Controller Action	Reverse Direct	Set before program run. Reverse causes the output to decrease or be off when the PV is above set point. Direct causes the output to increase or be on when the PV is above set point.
SW1-4 OFF ON	Number of PID Groups	One Three	Set for each program. Allows one or three groups of Pb, reset, rate and controller output limit values to be stored.
SW1-5 SW1-6 OFF OFF ON OFF OFF ON ON ON	PV Filtering	None Small Medium Large	Usually set in RUN mode. Establishes the degree of noise filtering on the PV signal.
SW1-7 OFF	(Not used)		
SW1-8 OFF ON	Time unit	Minute Hour	Set for each program. Establishes the time unit for each program.

Positions of switches on Switch Assembly SW2 for feature choices

NOTE: These are listed for reference only. Changing the input type involves more than changes in switch positions.

Switch Position	Feature	
SW2-1 OFF	(not used)	
SW2-2 OFF	(not used)	
SW2-3 OFF	(not used)	
SW2-4 OFF	(not used)	
SW2-5 SW2-6 SW2-7 SW2-8		Thermocouple type — W_5W_{25}
ON OFF OFF OFF		S
ON OFF ON ON		J
OFF ON ON ON		T
ON OFF ON OFF		R
OFF ON ON OFF		K
OFF OFF OFF ON		B
ON OFF OFF ON		E
ON ON OFF ON		NiNiMo
ON ON OFF ON		
OFF OFF ON ON	RTD—°F	
OFF OFF OFF OFF	RTD—°C	
ON ON ON ON	Millivolt, volt, or current	

Positions of switches on Switch Assembly SW3 for feature choices

Switch Position	Feature	Choice	Remarks
SW3-1 OFF	(not used)		
SW3-2 OFF	(not used)		
SW3-3 OFF	(not used)		
SW3-4 OFF ON	Proportional Band Range	1 to 1000% 1.0 to 100.0%	Set when entering Pb. Establishes the limits and resolution for the Pb adjustment.
SW3-5 OFF	(not used)		
SW3-6 OFF	(not used)		
SW3-7 OFF ON	PID Equation	"A" "B"	Set any time. "A" allows the Pb, reset and rate to act on the error. "B" allows the Pb and reset to act on the error, and the rate to act on the PV.
SW3-8 OFF ON	Controller Output	Current Time	Set before running. Current = 4 to 20 mA. Time = 24 Vdc, 75 mA (open collector transistor).