

Table 13. Alarm Program Register Settings

BITS	RESET STATE	LOGIC STATE	FUNCTION
FRAME 1			
DI15-12	NA	1100	Device enters 'alarm programming sequence' for group 0
		1101	Device enters 'alarm programming sequence' for group 1
		1110	Device enters 'alarm programming sequence' for group 2
		1111	Device enters 'alarm programming sequence' for group 3
Note: DI15-12 = 11bb is the alarm programming request for group bb. Here 'bb' represents the alarm programming group number in binary format.			
DI11-14	NA	Do not care	
FRAME 2 AND ONWARDS			
DI15-14	NA	cc	Where "cc" represents the lower two bits of the channel number in binary format. The device programs the alarm for the channel represented by the binary number "bbcc". "bb" is programmed in the first frame.
DI13	NA	1	High alarm register selection
		0	Low alarm register selection
DI12	NA	0	Continue alarm programming sequence in next frame
		1	Exit Alarm Programming in the next frame. Note: If the alarm programming sequence is not terminated using this feature then the device will remain in the alarm programming sequence state and all SDI data will be treated as alarm thresholds.
DI11-10	NA	xx	Do not care
DI09-00	All ones for high alarm register and all zeros for low alarm register	This 10-bit data represents the alarm threshold. The 10-bit alarm threshold is compared with the upper 10-bit word of the 12-bit conversion result. The device sets off an alarm when the conversion result is higher (High Alarm) or lower (Low Alarm) than this number. For 10-bit devices, all 10 bits of the conversion result are compared with the set threshold. For 8-bit devices, all 8 bits of the conversion result are compared with DI09 to DI02 and DI00, 01 are 'do not care'.	