

Register 11—Coarse I_{REF} Adjust (address = 0x0B) (Read/Write)

BIT #	D7	D6	D5	D4	D3	D2	D1	D0
BIT Name	CG7	CG6	CG5	CG4	CG3	CG2	CG1	CG0

This register sets the code to the 8-bit coarse DAC that adjust the magnitude of both reference currents. The nominal value for the reference current (both coarse and fine adjust set to '0') is I_{REF_PROGRAM}. See Table 1 for formulas.

Bit Descriptions

CG: Coarse I_{REF} Adjust (Bits 7-0)

These bits set the code of the fine DAC that adjusts the magnitude of both reference currents.

	REFERENCE CURRENT
OVERALL	$I_{REF1,2} = I_{REF PROGRAM} + I_{REF COARSE} + I_{REF FINE}$
PROGRAM	$I_{REF PROGRAM} = \frac{5V_{REF}}{R_{SET}}$
COARSE DAC	$I_{REF COARSE} = \frac{V_{REF}}{R_{SET}} \cdot \frac{N_{11}}{64}$
FINE DAC	$I_{REF FINE} = \frac{V_{REF}}{R_{SET}} \cdot \frac{N_{10}}{1024}$
NOTE: N ₁₁ and N ₁₀ are the decimal values of registers 11 and 10, respectively.	

Table 1. Equations for Calculating the Values of Each Reference Current