

Ashly 24.24M Gain Message Details

Sample Gain Message

To set Input 7 to -50dB on a 24.24M whose Device ID is set to 2, transmit the following:

Byte Number: 1 2 3 4 5 6 7 8 9 10 11
Hexadecimal: \$F0 00 01 2A 06 01 0C 06 3C 0C F7
or Decimal: 240 0 1 42 6 1 12 6 60 12 247

Byte # 1-5 are fixed header bytes.

Byte # 6 is the 24.24M's Device ID minus 1.

Therefore Byte # 6 = 0 for Device ID 1, 1 for Device ID 2, ... 15 (or hex \$0F) for Device ID 16.

Note: Device ID is shown on the unit's front panel dual 7-segment display when the preset LED is not lit.

Byte # 7 is the message type and is fixed.

Byte # 8 is the input/output channel to receive the new gain setting.

Byte # 8 value is 0-19 (or hex \$00-\$13) for Inputs 1-20 respectively.

Byte # 8 value is 64-83 (or hex \$40-\$53) for Outputs 1-20 respectively.

Byte # 9 and Byte # 10 contain the new Gain Word value split amongst them.

Byte # 9 = the integer portion of $[(\text{Gain Word})/128]$

Byte # 10 = $(\text{Gain Word}) \& (\$7F)$ = the seven least significant bits of Gain Word

-Or- for Crestron users Byte # 10 = $\text{ITOHX}((\text{gainword})\& (127))$

Gain Word has a valid range of 7692 to 8312 which represents -50dB to +12dB in 0.1dB steps.

Examples

Gain Word value 7692 = **-50dB** : Byte # 9 = **\$3C**, Byte # 10 = **\$0C**

Gain Word value 7792 = **-40dB** : Byte # 9 = **\$3C**, Byte # 10 = **\$70**

Gain Word value 7892 = **-30dB** : Byte # 9 = **\$3D**, Byte # 10 = **\$54**

Gain Word value 7992 = **-20dB** : Byte # 9 = **\$3E**, Byte # 10 = **\$38**

Gain Word value 8092 = **-10dB** : Byte # 9 = **\$3F**, Byte # 10 = **\$1C**

Gain Word value 8192 = **0dB** : Byte # 9 = **\$40**, Byte # 10 = **\$00**

Gain Word value 8292 = **+10dB** : Byte # 9 = **\$40**, Byte # 10 = **\$64**

Gain Word value 8312 = **+12dB** : Byte # 9 = **\$40**, Byte # 10 = **\$78**

Byte # 11 is the stop byte and is fixed.