

VCM-88 Control Protocols

The control protocol must be selected via two internal jumpers. Silk screen on the main circuit board illustrates the correct jumper positions for each protocol. Factory default is Crestron, which is also the current protocol used by the Ashly RD/RW-8 remotes and current AMX Systems. Please note that older RD/RW-8 remotes and AMX products use the original AMX/Ashly VCX-80 protocol.

AMX (original AMX/Ashly VCX-80 protocol)

Baud Rate: 4800 bps
1 Start Bit + 9 Data Bits (described below) + 1 Stop Bit
No Parity Bits

Byte 1 – Channel Id.*: 1nnnnnnnn (256-511) = channels 1-256 respectively
Byte 2 – Channel Level: 0xxxxxxx (0-255) = -75dB to +20.625dB, in 0.375dB steps;
(200 = 0dB)

Crestron (AMX & Ashly standard protocol)

Baud Rate: 9600 bps
1 Start Bit + 8 Data Bits (described below) + 1 Stop Bit
No Parity Bits

Byte 1, Channel Id.*: \$80-\$FF = channels 1-128 respectively
Byte 2, Channel Level: \$00-\$7F = -75dB to +20.25dB, in .75dB steps; (\$64 = 0dB)

RS-232 (Protea System Software)

Baud Rate: 9600 bps
1 Start Bit + 8 Data Bits (described below) + 1 Stop Bit
No Parity Bits

Byte 1, Box Id.*: \$B0-\$BF = Box 1-16 respectively (*default is \$B0*)
Byte 2, Channel Value: \$2A-\$31 = Channels 1 to 8 respectively
Byte 3, Channel Level: \$00-\$7F = -75dB to +20.25dB, in 0.75dB steps; (\$64 = 0dB)

MIDI

Baud Rate: 31.25k bps
1 Start Bit + 8 Data Bits (described below) + 1 Stop Bit
No Parity Bits

Byte 1, Status Byte*: \$B0-\$BF = MIDI Channels 1-16 respectively (*default is \$B0*)
Byte 2, Control Value: \$2A-\$31 = Channels 1 to 8 respectively
Byte 3, Control Level: \$00-\$7F = -75dB to +20.25dB, in 0.75dB steps; (\$64 = 0dB)

** Channel Id., Box Id., & MIDI Channel may be changed via internal bank jumpers. Please refer to your VCM88 manual for details. The factory default is channels 1-8, and Box Id./MIDI channel 1.*