

Serial to 0 ~ 10V DC Controller



This unique module will let you use an RS 232 string to generate a 0 to 10V DC voltage which can be used to drive lighting transformers or audio amplifiers with a 0 to 10 V DC input. There are 4 independent outputs on this unit. With the "get status " command you can retrieve the output levels to display on a 2 way control systems.

Protocol.

RS232 9600.8,1,n

String "STX, address, Type,channel, Level, Fade ETX" all in Hex

Byte 1 STX = 02

Byte 2 Address default version 1 = 01

Byte 3 Function = 10 Dimming (7 Bytes)

11 Colour cycle mode (4 Bytes)

12 Get current status (4 Bytes)

Byte 4 Channel outputs. = 01 to 04 dimmable, 00 master dimming level

Byte 5 Output level 00 to FF (0 to 100%)

Byte 6 Fade time in 1/10 of a second 01 = 1/10 of second , 0A = 1 second

Byte 7 ETX = 03

ACK = h06

String examples:-

Master dimming Level 10% with 1 second fade e.g. 02 01 10 00 0A 0A 03

returns- "02 01 10 00 06 03 "

Set channel 1 to full with a 1 second fade e.g. "02 01 10 01 FF 0A 03"

Returns- "02 01 10 01 06 03"

Get status of Dimmer e.g. 02 01 10 12 03

Returns "02 01 12 10 0A FF FF 00 06 03 "

Byte 5 was last delay sent

Bytes 6,7,8 , Value of Channels 1,2,3,4 in Hex

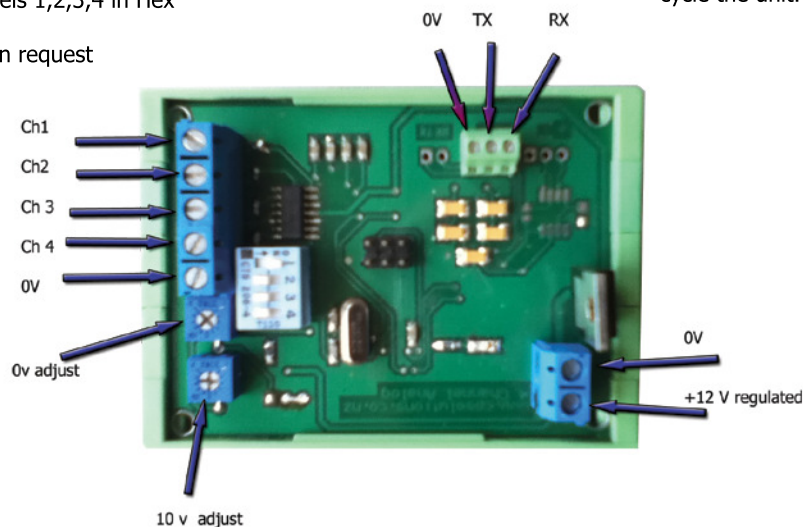
Address settings

from 1 to 7 in Hex 01 to 07

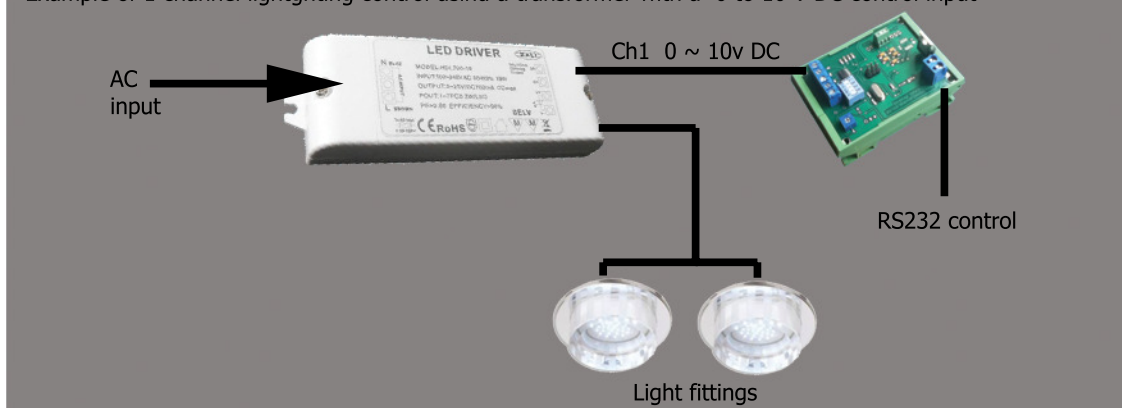
Address 8 , will cycle through asll the colours with out a control system connected (test mode) .

When changing the address power cycle the unit.

Available in RS485 version on request



Example of 1 channel lightgting control used a transformer with a 0 to 10 V DC control input



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Member