

MODEL SC-50-232-AD

AMERICAN DYNAMICS RS-232 to MANCHESTER CODE CONVERTER

version 2.0

The SC-50-232-AD converts American Dynamics RS-232 code into a manchester format. (Note: the input code is RS-232 protocol such as would be sent by an AD2091 or AD1983, which is NOT the same as Sensormatic RS-422 protocol.)

Version 2.0 automatically detects Input baud rates from 1200 to 19.2k.

A test mode sends a square counterclockwise movement pattern to the selected camera address. This can be use to test the configuration and connections to a camera without a controller. (While in test mode, normal conversion is suspended.)



Address Block
Selects the block number for AD2091 type input.

Address Selector
Selects test mode camera address. The valid address range is 1 ~ 64.

Rx Indicator
Flashes when there is data on the input lines.

Error Indicator
Flashes on input error.

Status Indicator
Flashes on input data for a different block number. Lights for an invalid test address

Tx Indicator
Flashes when manchester output code is sent.

Configuration Switches

Switch 1: Unassigned

Up:
Down:

Switch 2: Unassigned

Up:
Down:

Switch 3: Unassigned

Up:
Down:

Switch 4: Input Code type

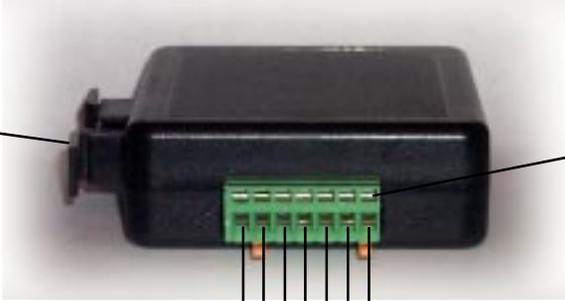
Up: Receive AD1983 type RS-232 data
Down: Receive AD2091 type RS-232 data

Switch 5: Test Pattern Code Type

Up: Fixed speed pan/tilt code
Down: Variable speed pan/tilt code
(Some old AD receivers won't accept variable speed code.)

Switch 6: Output Test Pattern

Up: Output test pattern On
Down: Output test pattern Off



The removable mounting clip can be snapped onto a din rail or screwed to a panel or wall.

Removable edge connector
Insert a small screwdriver in the upper slot to force open the wire clamp. Push all the way in to open fully. Place stripped wire end(s) in the open clamp and withdraw screwdriver.

Rx Com W B
Data Pwr Pwr Data
Input Output

Connect power to the Pwr inputs. Do not connect power wires to the Gnd.

SPECIFICATIONS

Size:	4.5" x 3.5" x 1.25"
Weight:	0.5 lb
Power:	6Volt to 15Volt AC or DC at 75ma
Environmental:	Indoor use only

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NOTES

Switch Settings

Any changes in switch settings are effective immediately, they are not read only on power up.

Switch 4: AD Code Type

Down for receiving the type of code from an AD2091. Put the switch up to receive the type of code for an AD1983. In this case, the address block switch is ignored.

AD manchester code is limited to a single block of 64 addresses as is the RS-232 code for an AD1983. The RS-232 code from an AD2091 includes a block number; block 0 is 1~64, block 1 is 65~128, block 3 is 129~192, etc. The default setting is switch 4 down for AD2091 type code with a block number. Only input commands for the block number matching the address block switch are converted.

Switch 5: Fixed Speed

Some older AD receivers can not correctly read variable speed code. If this switch is up, the test pattern will send only fixed speed pan and tilt commands. These are interpreted by the variable speed capable receivers as the highest speeds.

Switch 6: Test mode.

When switch 6 is up, a square movement pattern is sent to the camera selected by the test address switches. The input is disabled during test mode. If a non-valid address is selected, the Status indicator will light and no data will be sent.

Indicators

The **Rx** indicator will flash when there is any data on the input.

The **Error** indicator will flash if the input data is not recognized as AD-RS232 code.. Possible causes are incorrect baud rate or the code is different than the type set by switch 4. It will flash momentarily during the auto baud detect process on start up.

The **Status** LED will light if the address switches are not set to a valid address (1~64) when the test mode is active.

The **Status** wil also flash for AD2091 data addressed to a different block.

The **Tx** LED flashes once for each manchester packet sent.