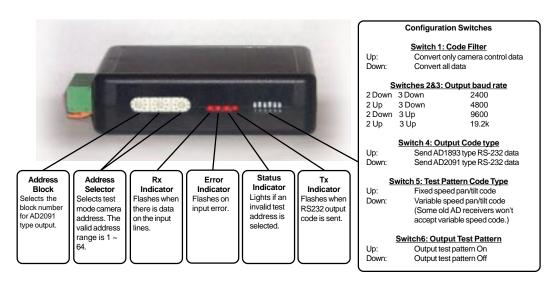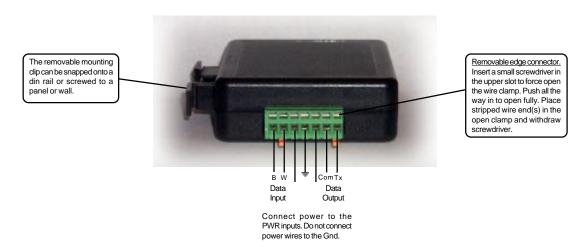# MODEL SC-50-AD-232

AMERICAN DYNAMICS MANCHESTER to RS-232 CODE CONVERTER

The SC-50-AD-232 converts American Dynamics manchester code to an RS-232 format. The input data can be filtered to pass only camera control information.The RS-232 output supports baud rates from 2400 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.)

Configuration Switches

Switch 1: Code Filter
Up:	Convert only camera control data
Down:	Convert all data

Switches 2&3: Output baud rate
2 Down	3 Down	2400
2 Up	3 Down	4800
2 Down	3 Up	9600
2 Up	3 Up	19.2k

Switch 4: Output Code type
Up:	Send AD1893 type RS-232 data
Down:	Send 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.)

Switch6: Output Test Pattern
Up:	Output test pattern On
Down:	Output test pattern Off

Address Block
Selects the block number for AD2091 type output.

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
Lights if an invalid test address is selected.

Tx Indicator
Flashes when RS232 output code is sent.

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.

B W   Data Input

Com Tx   Data 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

Sennetech, Inc. 6455 W. Bath Rd, Perry, MI 48872 U.S.A.   Ph (517) 675-1150 Fax (517) 675-1151

www.sennetech.net

Switch Settings

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

Switch 1

If switch1 is up, only camera control data is converted. This can reduce the amount of data on a network or RF link.

Switches 2&3

There are four selectable baud rates to facilitate matching network or modem parameters.

Switch 4

If switch 4 is down, the RS-232 output is AD2091 type which includes the block number from the block address switch.

If switch 4 is up, the RS323 output is AD1893 type code without block information.

Switch 5

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

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** LED will flash when there is any data on the input.

The **Error** LED will flash if the input code is not recognized as valid AD manchester code.

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 **Tx** LED flashes once for each RS-232 packet sent.