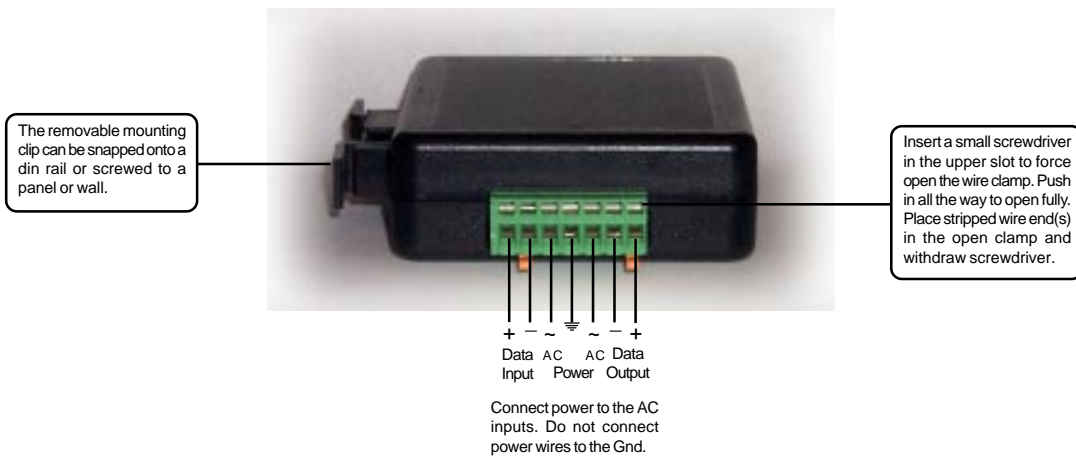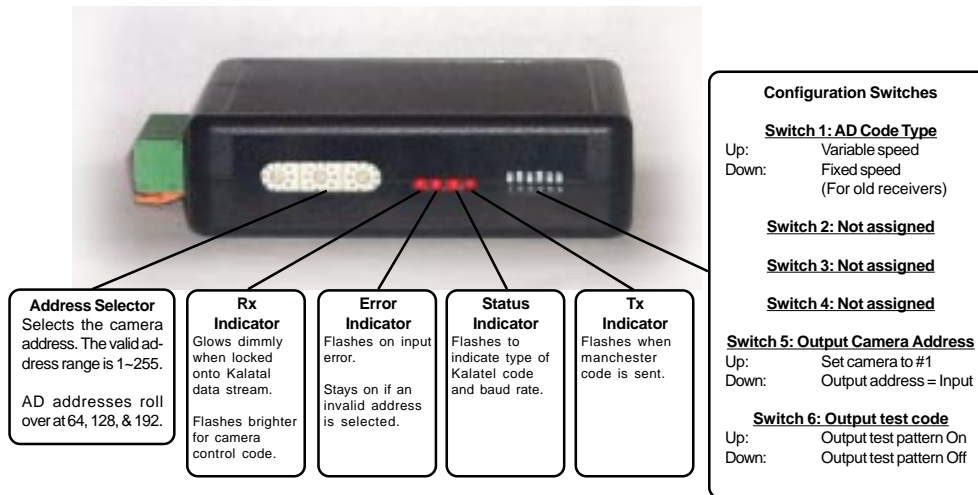# SCT-100-Kalatel-AD
Kalatel RS-422 to AD Manchester Code Translator

The code translator converts Kalatel camera control code to American Dynamics manchester code for a single P/T/Z. Only camera commands for the address matching the Address Selector switches will be converted.

Input Kalatel code type and baud rate is detected automatically.

A test mode sends a continuous square movement pattern to the P/T/Z so the wiring and addressing between the translator and the P/T/Z can be checked without a Kalatel controller.

Configuration Switches

Switch 1: AD Code Type
Up: Variable speed
Down: Fixed speed
(For old receivers)

Switch 2: Not assigned

Switch 3: Not assigned

Switch 4: Not assigned

Switch 5: Output Camera Address
Up: Set camera to #1
Down: Output address = Input

Switch 6: Output test code
Up: Output test pattern On
Down: Output test pattern Off

Address Selector
Selects the camera address. The valid address range is 1~255.

AD addresses roll over at 64, 128, & 192.

Rx Indicator
Glows dimmly when locked onto Kalatel data stream.

Flashes brighter for camera control code.

Error Indicator
Flashes on input error.

Stays on if an invalid address is selected.

Status Indicator
Flashes to indicate type of Kalatel code and baud rate.

Tx Indicator
Flashes when manchester code is sent.

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

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

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Data   AC   AC   Data
Input Power   Output

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

SPECIFICATIONS

Size: 4.5" x 3.5" x 1.25"
Weight: 0.5 lb
Power: 9Volt to 24Volt AC or DC at 75ma
Environmental: Indoor use only

Addressing

Only camera control code for the camera number set by the Address Switches is converted.

If switch 5 is ON. the output code is always addressed to camera #1. Otherwise, the output code address is determined by the Address Switches. The highest possible AD manchester address is 64. The output addresses are rolled over at multiples of 64. Thus, 65 is converted to 1, 66 is converted to 2, etc.

Indicators

Even when not controlling a camera, Kalatel sends a continuous stream of data which the code translator automatically locks onto. Once locked, the **Status** LED will flash the type of code found. First, it flashes twice for Digiplex II or three times for Digiplex III. Then it will flash either twice for 2400 baud or four times for 4167 or 4800 baud.

While locked, the **Rx** LED will glow at a low level. Whenever camera control data appears, it will flash brighter.

Input code errors will cause the **Error** LED to flash. If the address switches are not set to a valid address (1~255), the **Error** LED will light continuously.

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

OPERATION

PTZ

The code translator converts pan, tilt, zoom, focus and iris commands directly.

Speed

With switch 1 ON, the output is variable speed AD code. Some older AD receivers can not correctly read variable speed commands. For these, set switch 1 to OFF, limiting the output to AD fixed speed commands.

Variable speed capable receivers will interpet fixed speed code as the highest variable speed.

Presets

Kalatel has a maximum of 64 presets. AD manchester code supports 72 presets.

Some Sensormatic domes use presets 65~72 for special functions when receiveing manchester code. In order to access these functions, the code translator adds 10 to all preset numbers above 49. Thus, to activate a dome configuration menu using [Set Preset 66], from the Kalatal controller send [Prgm Preset 56].