CTD-200 Series Card Dispenser Versions

CTD-200 – Standard TTL Card Dispenser
CTD-201 – Accumulator Card Dispenser
Power Supply Requirement: +24VDC 1A
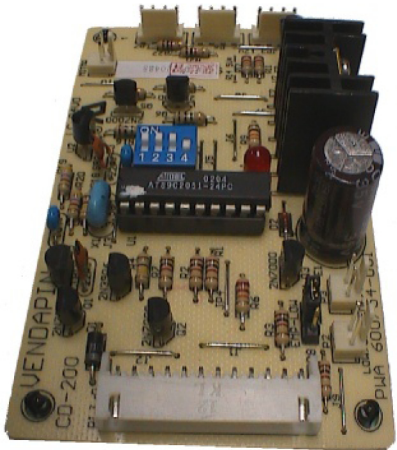

Figure 1: VCB-1 Board

CTD-202 – USB Card Dispenser
CTD-203 – RS-232 Card Dispenser
Power Supply Requirement: +5VDC/+12VDC 1A

Figure 2: VCB-2 Board

CTD-200 Card Dispenser

VCB-1 TTL Pinout Details

Pin #	Wire Color	Conn-ector	Description
1	Black	Ground	P.S. Ground
2	Orange	+24VDC	P.S. +24VDC Input
3	Black	Ground	Dispense/Vend Switch to Ground (Gnd)
4	Brown	/Vend or /Dispense	Dispense/Vend Card after 30mS+ to Gnd
5	White	/Reset	Reset card dispenser after 30mS+ to Gnd
6	Yellow	/Low	Card/Ticket low switch option (LED)
7	Green	+12VDC w/ 1KΩ	For Ready signal (#8)
8	B/W	/Ready	Ready signal – (connected to LED to #8)
9	Blue	+12VDC w/ 1KΩ	For Stuck signal (#10) – connect to LED
10	Yellow	/Stuck	Stuck signal – (connected to LED to #9)
11	Violet	+12VDC w/ 1KΩ	For Empty signal (#12) – connect to LED
12	Yellow	/Empty	Empty signal – (connected to LED to #11)

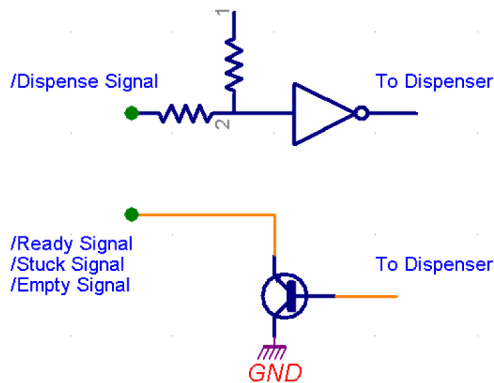**Note:** PIN #1 – left side of VCB-1 board (see Figure 1)

Figure 3: TTL Logical Diagram

VCB-1 Dip Switch Position:

Position 1	Position 2	Position 3	Position 4
API Set On/Off (Default:OFF)	Reserved (Default:OFF)	Reserved (Default:OFF)	Card Hold On/Off (Default:OFF)

API Set: Standard = OFF, CECB4 API = ON (Default: OFF)
Card Hold: Default – OFF (fully ejected the card), ON to hold the card.
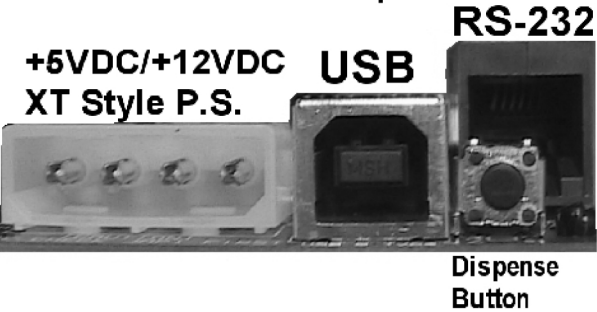
CTD-202/CTD-203 Card Dispenser

Figure 4: VCB-2 Ports

VCB-2 XT Style Connector:

PIN #	Description
#1 (Left)	+12VDC
#2	Ground
#3	Ground
#4	+5VDC

VCB-2 USB Type B

Use USB Type A to USB Type B cable for connecting to PC USB Type A port.

VCB-2 True RS-232 RJ-12 Port

PIN #	Description
#1 (Left)	Ground
#2	Data Receive
#3	Data Transmit

VCB-2 Reset Button (see Figure 2, near green LED)
VCB-2 Empty/Ready LED Header (see Figure 2)

VCB-2 Dispense Button

This dispense button is used to test the card dispenser operation, as well as assisting with the card gate adjustment.

Communicating to Card Dispenser

Please refer to the API protocol documentation on the API CD. You will need to add the function routines to your host application software before it can communicate with the card dispenser via USB or RS-232 protocols. We recommend you use the Card Dispenser API Tester software to test the USB / RS-232 card dispenser operation.

Additional documentation can be found on the CTD-202/203 Card Dispenser API Tester CD.