

RTC Associates, Inc.

Service

Access Control Products

Support

RTC Replacement Transponder Board

RTC has developed a replacement transponder board for the Pyrotronics / Sentracon System. These boards are a direct one for one replacement. They will function with your present transponder boards installed. The new transponder board (RTC PN 10-0032) monitors the field alarms and reports back to the Sentracon security system as the old transponder board had done. The 10-0032 board uses analog to digital technology to monitor the filed alarms. Status LED's are incorporated into the board to allow for fast troubleshooting. These LED's provide visual alarm, system and microprocessor status. An extra dry contact has been provided that closes for two seconds during an alarm or trouble condition. Setting the board address is made even easier with berg jumpers. RS 485 communications has been incorporated for future upgrades. The board can communicate to the Sentracon system AND over a RS-485 network at the same time. Ethernet communication is also available.

Board Installation

To install the 10-0032 transponder board:

- 1: Remove the old transponder from the system.
- 2: Address the 10-0032 board VIA the berg jumpers to the correct address. This address will be the address of the board removed.
- 3: Install the board in the same configuration as the board that was removed.
- 4: Connect a DVM to test points TP1 and TP4. TP1 is a black test point located on the edge of the board and is ground. TP4 is a red test point located on the edge of the board next to the potentiometer and is the alarm positive voltage.
- 5: Adjust the voltage between the two points using the potentiometer to +2.00 VDC. This is the voltage for a normal alarm condition.

Test Points	LED's	External wiring Connections
System Voltage	Alarm Status	RS-485 +
Ground	System Status	RS 485 -
Data Available (DA) Signal	Microprocessor / RS-485 Status	Shield Ground
Alarm Voltage Setup		Dry Contact N/O
RS-485 +		Dry Contact Common
RS-485 -		Dry Contact N/C

LED Functions

There are three bi-color LED's located on the edge of the board.

LED1: This LED provides the field alarm status.

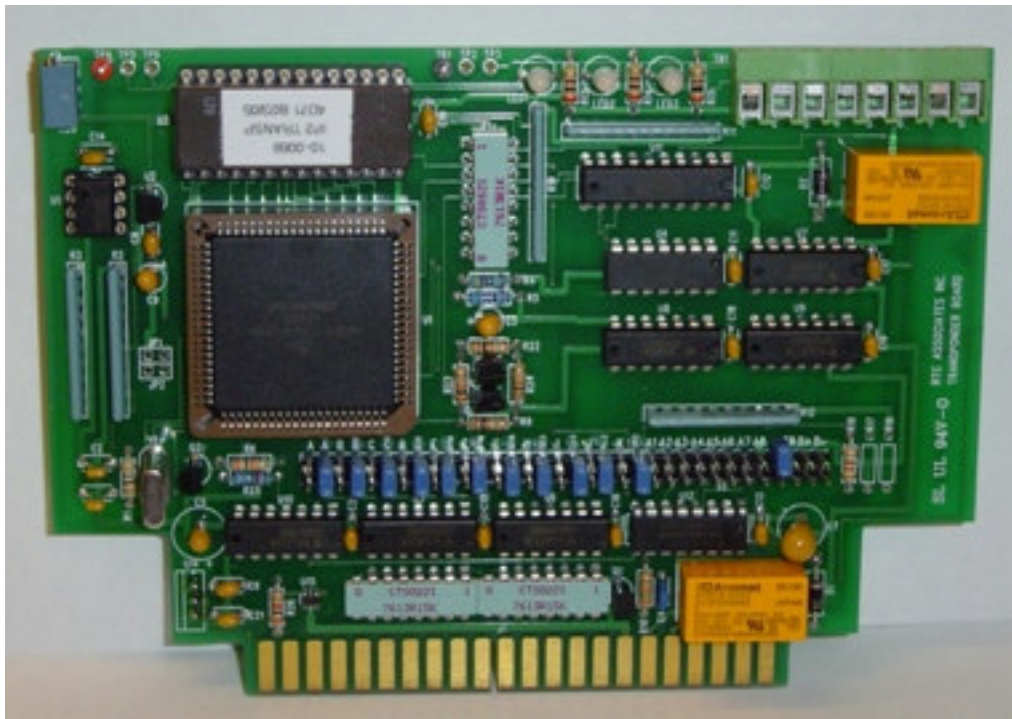
Green: Normal alarm condition.

Red: The 10-0032 board is reporting an alarm to the system.

Flashing Red: The 10-0032 board is reporting a trouble to the system.

LED2: This LED will be green if the 10-0032 board is being addressed (polled) by the security system. If the 10-0032 board is not being addressed the LED will turn red.

LED3: This LED will flash green if the microprocessor located on the 10-0032 board is functioning correctly. If the LED is not flashing green there is a problem with the 10-0032 board and it should be removed. If RS-485 communication is utilized this LED will display RS485 communication status.



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