

Crestron to Texecom Premier 48-88-168 Interface

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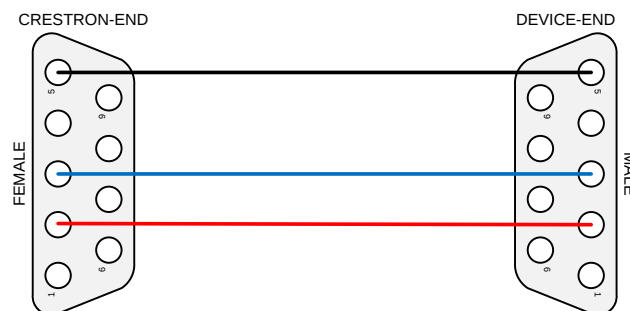
Summary

This datasheet relates to Ultamation's Texecom Premier interface module for Crestron control systems. It provides the essential information for integration between the Texecom system and the Crestron control processor, and for programming of the module with a host Crestron program.

Installation Notes

The Crestron system is connected to the Texecom alarm panel over an RS232 connection, to the Texecom PC-COM serial interface. This must be installed onto one of the comm ports of the alarm panel, and the port must be configured to "Crestron Protocol" as 19200 baud (8 data bits, No parity, 1 stop bit).

The RS232 connection is a straight-through cable as shown below:



Programming Notes

This distribution consists of 3 modules. A core communications module, an area decoder and a zone decoder.

Each of the module files should be placed either in the host program's project folder, or to make the Texecom interface available to all Crestron programs, in the SIMPL Windows installation's User Macro (for .umc files) and User SIMPL+ (for .usp and .ush files) directories. This pdf should be placed in both directories for SIMPL's F1 help function to work properly.

Texecom Premier Crestron Protocol Module

A single instance of the "Texecom Premier (Serial) (Ultamation)" module should be added to the program and connected up to the Crestron comm port Tx & Rx (which must be configured in the same way as the panel [see above]). The module can be used with COM-IP with some additional setup.

The module provides analog outputs for the defined Areas of the security panel. These should be connected to a corresponding “Texecom Premier Area Decoder” module and suitable “Texecom Premier Zone Decoder” modules.

The module allows the zones to be expanded to the required number for the alarm system. For each zone output, you should connect the zone status analog signal to an instance of the “Texecom Premier Zone Decoder” module.

Texecom Premier Area Decoder Module

The area decoder takes the corresponding area status output and decodes the value to a collection of digital signals that represent the various states from armed, disarmed and so on.

Texecom Premier Zone Decoder Module

The zone decoder should also have the appropriate Zone Area Status signal connected to the core module (i.e. If Zone 1 lies within Area A, connect the central module’s Area A signal to the Zone 1 Decoder’s Area input). The zone decoder signals can then be used to trigger logic or touch panel indicators to show activity across the intruder alarm.

Please refer to the enclosed example program for further details on how these modules should be connected.

Troubleshooting

If you are having difficulty communicating with the alarm panel, please check the RS232 cable is wired correctly and the com port settings are correct on both the Crestron program and the Texecom alarm panel.

Texecom Premier Creston Protocol Module

Active	While high, the module will poll the alarm panel for its current LCD text once per second. This signal would normally be tied to your user interface “show alarm keypad page” logic.
Update_Areas	Pulse this signal to request the status of the alarm areas. This information is sent by the panel on any change anyway, so can usually be left unconnected.
Key_*	Corresponds to the key on the virtual alarm keypad. Additional signals are included for “special” functions such as PA, Fire and Medical emergency.
PC_Output_On[n]	Set high to have the control system will instruct the alarm panel to set its corresponding PC output high. Set low to set the PC output low.
SMS\$	Send a string to this signal to have the panel transmit an SMS message. This has two modes: If you include a # in the string, the panel will take the substring before the # as the mobile number (max 30 chars) and the message follows the #. This mode requires a GSM module in the system. If there is no #, the entire string is used as the SMS message and is sent to the configured recipients. This mode requires a GSM module or a Com2400 in the system.
Rx\$	Connect to the control system’s Rx Com port signal.
User_Code	This signal will pulse when a valid user code is entered into one of the keypads in the system.
Area_Status[n]	Indicates an area is in the armed state (this does not necessarily mean that all zones within that area are armed, as some may have been omitted). Area 1 equates to Area A, 2=B, 3=C and so on.
LCD_Top\$, LCD_Bottom\$	The two lines of text shown on the virtual keypad.
Tx\$	Connect to the control system’s Tx Com Port signal.
Zone_Status[n]	An analogue signal is presented for each zone defined in the system (expand the signals with [Alt

+].

Each signal should be connected to a zone decoder (along with it's appropriate Area_Armed signal)

Texecom Premier Area Decoder Module

Area_Status#	Connect the zone's corresponding Area_Status signal from the core module.
[Area_Disarmed]	High when the area is disarmed
[Area_InExit]	High when the area is transitioning from disarmed to armed.
[Area_InEntry]	High when the area is transitioning from armed to disarmed.
[Area_Armed]	High when the area is armed.
[Area_Alarmed]	High when the area is armed and has been triggered – causing an alarm.

Texecom Premier Zone Decoder Module

Area_Status#	Connect the zone's corresponding Area_Status signal from the core module. This is required as the Zone Status doesn't not include specific information about armed states
Zone_Status#	Connect the signal from the core module. Zone numbers match the designations in the alarm panel's configuration.
[Reset]	Pulse this signal to clear any latched alarm signal.
[Healthy]	This signal will be high when the zone is healthy (i.e. not in a fault or tamper state)
[Activity]	This signal will go high when the zone input is triggered on the panel. NOTE: The panel does NOT have to be set in order to monitor zone status.
[Tamper]	This signal indicates the zone is in tamper state.
[Armed]	This signal duplicates the Area_Armed signal.
[Alarm]	Latches high when the zone is armed and active.

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Future revisions of the software, whether bug fixes or additional features, will be provided free of charge to existing customers. If additional features are requested, there may be an additional charge, and resulting fixes or features may become part of the standard module, therefore benefitting the existing customer base.

The software is provided in an unencrypted form allowing you to view the internal workings of each component, or make additions or modifications if you wish to do so. Ultamation cannot provide support for such modifications, though we will always provide assistance on a best efforts basis.