

"Poll-Data" Comms Task Format

The "Poll-Data" format allows an external intelligent system to obtain alarm information from the Model 3000 or Access 4000 using one of the UART Ports. The external system regularly polls the panel for alarm data, thereby ensuring that both systems are aware that the other is operational. A simple protocol provides for error free transfer of alarms. At this time, alarm information can be returned in the Contact ID format or as system text.

Operation

All characters sent or received are displayable ASCII characters. All data from the external system begins with a line-feed and ends with a carriage return. The maximum number of characters that may be sent to the external system in one packet is 160 characters.

Communication is always initiated by the external system sending a single character command. The panel will reply with a multiple character packet within 2 seconds maximum. The 3000/4000 will discard any characters received whilst it is sending a reply.

The 3000/4000 expects a legal command every 30 seconds. If a command is not received within 30 seconds the panel considers communications to have failed and sets the panel Comms Fail system input to the alarm condition. A legal poll will restore the alarm condition.

Backup Comms Task

A backup Comms Task can be defined if desired. If no valid poll has been received for 30 seconds (60 seconds on startup), the UART problems input will be placed in alarm and the backup Comms Task will be triggered. Alarms will now be sent via the backup Comms Task. When a valid poll is next received, if the backup Comms Task has not caught up yet then a "No Data" reply will be given. If a backup Comms Task has caught up, it will be terminated and control will be returned to the Poll Data Comms Task. The UART problems input will then be restored.

Poll-Data Options

**CT001 Idle ->
Poll-Data**

Options are reached by pressing HELP, "9" at the Active / Idle screen. Options are divided into common options and less common or Special options.

Special options are reached by pressing HELP, "9" twice at the Active / Idle screen.

A Backup Comms Task may be programmed by pressing HELP, "9" three times at the Active/Idle screen.

**CT001 Port ->
to use: 0**

This screen allows the Installer to define the UART Port to which the Tripad will be connected. Depending on the version of UART Expander fitted to the Control Module, a Port number from 1 to 4 may be used. The Port number is selected by scrolling through the available options using the right arrow key.

**CT001 Baud ->
Rate: 9600**

This screen allows selection of the Baud Rate (Data speed) at which the UART will communicate with the Tripad. The Baud Rate is selected by scrolling through the available options using the right arrow key. A setting of 9600 Baud is recommended. See *Comms Task Baud Rates in Comms Task Programming [MENU 7,3,1]*

Poll-Data Special Options

**CT001 Client
Code: 0000**

This screen sets the client code to be used for this Comms Task. The client code is programmable in decimal from 0001 to 9999. (Client codes of 0000 and 9999 should be avoided). If the "Multiple Area Client Code" is set, it is possible for a different client code to be used.

**CT001 MLGPN...
Ropts -> nnnnnnnn**

This screen sets various reporting options:

M Multiple Area Codes

If Multiple Area client codes are selected, whenever a report from an Area is performed (open/close/alarms/tampers/isolations/restores) the client code defined in Area Programming will be used if it is not "0000". If the Area Client code is "0000", the Comms Task client code will be used. If this option is set to "n" then the Comms Task client code will always be used. (See Area Programming for more details of this application)

L Look Ahead

Normally all reportable events will be sent in the order that they occur; one at a time until no more reports are required. The Comms Task will ensure the order will not alter, even if communication takes a long time to get through to the Central Station or if reports are being generated faster than they can be sent. If this option is set to "Y", **Look Ahead** operation is selected. With Look Ahead selected, a sequence of multi-breaks on a single Zone/Input will be ignored if a restore report has already been sent for that Zone/Input and there are new alarms from a different Zone/Input that have not been sent yet. Open/Close reports do not follow this logic and are always reported. This option is useful to track intruder movement through a larger installation and ignore multi-breaking detectors.

G General O/C

This option selects general open and close reporting. Whenever **all** Areas are turned ON a general Area close is reported. As soon as the **first** Area is turned OFF, a general Area open is reported.

In Area programming, some Areas can be nominated as "Not General Area" and are ignored in the general Area calculation. Open/Close will not be reported on these Areas in any Comms Task with this "General Open/Close" option set to YES. Another Comms Task with this option set to NO may be used to allow these Areas to trigger individual Open/Close reports. See Area Programming "Not General Area" option for details.

P Prevents Restores

This option prevents restores being sent via this Comms Task.

N No Area Still Open

In Area programming, it is possible to enable reporting of "Area Still Open" and "Area 24Hour Offs". Not all reporting formats can handle these reports. Setting this option to "Y" will disable these reports for this Comms Task. If it is necessary that these events be reported, an additional Comms Task should be programmed using the IRfast format which supports them.

CT001 Area List
Filter: AL002

This screen allows an optional Area List filter to be defined for this Comms Task. If a non-zero Area List is chosen, only information from Areas in the specified Area List will be sent using this Comms Task.

CT001 EOA.....
Efilt-> nnnnnnnn

The “Extra Filter” screen option allows a Comms Task to only respond to certain types of events.

E	Extra Filter	This option enables Extra Filter options. If left at “n”, no extra filtering is used. ie. normal operation.
O	Opens/Closes	This option enables Opens/Closes reports to be sent via this Comms Task.
A	Alarms	This option allows Alarms/Tampers/Isolations to be sent via this Comms Task.
.	Spare	Spare options for future filters. Leave set to “n”.

For example: To configure a Model 3000 system so that all openings and closings are sent via Securitel and all alarms/tampers/isolates go via Poll Data, set the Securitel Comms Task with the “E” and “O” Extra Filter options and the Poll Data Comms Task with the “E” and “A” Extra Filter options.

CT001 Mapping ->
Standard

This screen determines the input mapping for this Comms Task. In order to cater for different types of system configurations within the limitation of the number of points available in the Contact ID format, several input mapping options have been provided as follows:

- Standard
- MAP-1
- School 30
- School 19
- SIMS II
- Access-1 (V3 or later)
- Pacom (V3 or later)
- Standard-2 (V3.5 or later)
- School 19B (V3.59 or later)

For more details of Mapping options refer to “Comms Task Formats” at the beginning of this section and to the tables at the rear of this manual.

Backup Comms Task

A Backup Comms Task may be programmed by pressing HELP, “9” three times at the Active / Idle screen.

CT001 Backup
Task: CT000

This screen allows the Installer to specify which Comms Task is to be used as the Backup Comms Task.

CT001 . . R.
Status -> nnnn

Diagnostics

Pressing the ON Key whilst the Active/Idle screen is displayed will display the UART Port status screen. This screen can be cleared when desired by pressing the OFF Key. The following table explains the flags:

.	Spare	Spare for future development.
R	Retry	A "Y" under this flag means the receive fifo (16 bytes) has overflowed and at least one character has been lost. This will normally cause a retry of some kind.
.	Spare	Spare for future development.
.	Spare	Spare for future development.

The "R" flag may be monitored after communications via this port. In the event that the system places a "Y" flag under the "R", the Status screen should be reset and monitored further. Should a "Y" flag appear under the "R" with some regularity, a potential cause would be the baud rate at which the port is attempting to communicate. In such a case the Installer should reduce the baud rate and monitor the effect via the status screen.

In the event that lower baud rates do not solve the problem, assistance should be sought from the manufacturer's Service Technician.