# **PDT3P User Guide**



WiPath Communications Ltd

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# **PDT3P Version**

PDT3P version 6.0 or over can only be used for PDT3000/PDR3000/PSR3000 with the M16/62PE(M30626FHPFP) type of the processor and does not support the M16/62P(M30624FGPFP) and M16/62A(M30624FGAFP) processor type.

If PDT/PDR/PSR has M16/62PE(M30626FHPFP) processor type on board but with an old version firmware, the steps below must be followed to upgrade:

- 1. "Download from pager" to read the pager configure first.
- 2. "Upload to pager" to write the pager configure into the new ROM area for version 6.0 or over ROM.
- 3. "Upgrade" the "pdt\_flash\_PEV6.0.rom" to PDT/PDR or the "psr\_flash\_PEV6.0.rom" to PSR from the "ES | Upgrade | flash" folder.
- 4. Then "Upgrade" the "pdtVx.x.rom to PDT or the "pdrVx.x.rom to PDR or "psrVx.x.rom" to PSR from the "ES | Upgrade" menu.

# Introduction

Paging Data Terminal 3000 Programming (PDT3P) software is used to set up configurations for Paging Data Terminal 3000 (PDT3000), Paging Data Receiver (PDR3000) and Paging Serial Receiver 3000 (PSR3000).

There are 3 components to programming a PDT/PDR/PSR; this software (PDT3P), the templates that are loaded by PDT3P when it is first started and the firmware contained in the product.

It is very important to understand the difference between these three components.

Templates determine the type of product and model of product that is to be programmed. When PDT3P is first loaded onto a PC a template ID key is requested. This key determines which templates will be visible. There are about 30 templates however you will only receive a key for the templates that you require. When PDT3P is started subsequently a template window will pop up to allow you to select the correct template. If the key you were originally provided was for a single template then this window will not appear and PDT3P will automatically load that template. Additional templates can be activated by changing the template ID key. Note that it is possible to program a unit with an incorrect template and this will cause the product to act in an incorrect manner. This will not, however, damage the unit. The current template loaded will always appear in the title bar at the top of PDT3P. When a download from a unit is carried out, PDT3P will automatically load the current template contained in that unit.

PDT3P is used to set the programmable configuration parameters of the unit such as frequency, cap codes, I/O settings etc. The user interface and the functions visible in PDT3P will change according to which template is loaded.

The firmware contained in the PDT/PDR/PSR determines its basic operational capabilities. There is only one version of firmware (rom file) available for each of three different types of product. All other differences between different models of the same product are set using the templates.

# Installing

### **Required Items**

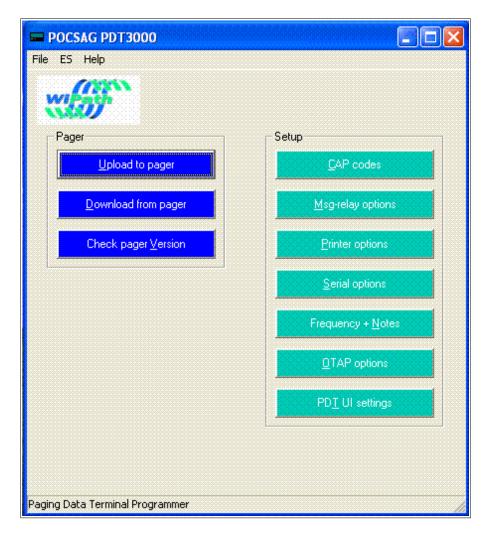
- □ 1 x Serial Null Modem DB9 female-to-female cable.
- □ 1 x 12v DC Power supply rated at 0.5 amps (or greater) with 2.5mm center positive plug attached.
- 1. Plug the serial cable into the PC (COM1 is the default port)
- 2. Open PDT3P
- 3. Select the template appropriate to the PDT/PDR/PSR that you are programming. Note: if you only have a key for one template then PDT3P will open automatically with that template active.

Name	Title	Description	Cance
clockpdr.est reflexpdr.est synppdt.est synppdt.est transmit.est synfpdr.est golaypdr.est golaypdr.est golaypdr.est tnppspdt.est fcpsr.est ttcpocsagpdt300 pocsagpsr.est flexpdt3000.est golaypdt3000.est flexpsr.est lockalert.est tnpppdr.est	Synthesized POCSAG PDT (MbKb) Synthesized Flex PDT (MbKb) WiPath Transmitter Flex PDR Golay PDR Golay PSR TNPP PDT3000 POCSAG PDR Flex Chip PSR	pdr clockpage promisc noprinter pdr msgrelay reflex pdt pocsag synth maildrop msgrelay kbconfig matrixkb pdt pocsag synth maildrop msgrelay kbconfig transmit noserial noprinter nocapcode noes pdr flex synth msgrelay pdr golay synth msgrelay pdr golay synth msgrelay pdr maildrop msgrelay kbconfig matrixkb tnpp pdr pocsag synth msgrelay psr flexchip synth msgrelay ttc pdt pocsag synth msgrelay pdt flex synth msgrelay psr pocsag synth msgrelay pdt flex synth msgrelay psr flexchip synth msgrelay pdt flex synth msgrelay pdt flex synth maildrop msgrelay kbconfig matrixkb pdt golay synth maildrop msgrelay kbconfig matrixkb psr flex synth msgrelay lockalert transmit rtc noprinter nocapcode noserial pdr msgrelay tnpp	<u>O</u> pen

4. Plug the PDT/PDR/PSR into a 12-volt supply and plug in the DB9 plug into the back of the PDT/PDR/PSR.

PDT3P does not read or write to the PDT/PDR/PSR unless instructed to do so. It is recommended that unless you need to change the basic template of the PDT/PDR/PSR then you download the programme in the unit first. Click on the "Download From Pager" button. This will download the current settings from the PDT/PDR/PSR. It will also automatically select the template that is currently loaded in the PDT/PDR/PSR. If you need to change the basic template of the PDT/PDR/PSR do not do a download. Just select your template, change the settings and press "Upload To Pager" (Please consult)

# Main PDT3P Window



## **Title Bar**

The blue Title Bar at the top shows the current Template selected.

## **Upload To Pager Button**

This button is used to upload new settings to the PDT/PDR/PSR. This will overwrite any settings currently in the PDT/PDR/PSR.

## **Download From Pager Button**

This button is used to download the current settings from the PDT/PDR/PSR. This will overwrite any settings currently in PDT3P and will change the template in PDT3P to that programmed in the PDT/PDR/PSR if different from that showing.

## **Check Pager Version Button**

This button is used to read the software and hardware versions from the PDT/PDR/PSR.

## Set Time & Upload Button (PDR Templates Only)

This button is used to set the time and upload the new settings to the PDR3000. Time is set on the PDT in the PDT User Interface or by selecting the set time and write function in the ES menu.

## **Menu Options**

#### File

#### New Open, Save, Save As

Open, save or create new configuration files which are saved as .ses files.

#### Set Template

Change the current template. (This option is only available if you are authorized for more than 1 template option.)

#### Set Template Set ID

Change the key that authorizes the templates available. (This option is only available if you are authorized for more than 1 template option.)

#### Comport

Change the comport to which the PDT/PDR/PSR is connected.

#### **Program Mode**

Local - Program a unit which is directly connected to a PC serial port

Remote – Program a unit when it is connecting to a PC serial port through a virtual serial connection(for example: serial – Ethernet – serial) and the unit must be setup to be controlled remotely first. Some functions like "Set time" and "Get OTAP Capcode" can not work in this mode.

#### **Import Capcodes**

Provides the capability to load a large number of cap codes from a CSV file. The CSV file format should follow the sample files in PDT3P/data folder.

#### Exit

Finish the program and exit.

#### ES

#### Read, Write

Read and write configuration settings to and from the PDT/PDR/PSR. These are the same as the Upload and Download Buttons on the main screen (see below)

#### Upgrade

Use this option to upgrade the Flash ROM in the PDT/PDR/PSR. Only use this option if instructed to do so by a service representative. The latest ".rom" file will always have the same version number as the PDT3P version currently loaded.

#### Set password

Set up a password to prevent an unauthorized person from reading or writing program from or into the PDT/PDR/PSR

#### Set Time & Write

Set the time and write configuration settings to the PDT/PDR. This is the same as the Set Time and Upload button on the main screen (see below)

#### Upload a specific SES file

Upload the configuration in the SES file to ES without changing anything in the file.

#### **Get OTAP Capcodes**

Read Over The Air Programming Capcodes from the PDT/PDR/PSR. The OTAP capcodes which the unit had can be displayed on the OTAP option window if this reading operation was successful.

# **Capcodes Window**

This window is used to set the cap codes (addresses) and the output settings for each cap code.

Capcode	Range	Name	Туре	Serial2	Serial1	Capcode and Options
1	0	Network lost	Alpha	0	0	Capcode 1234567
2	0	Network fo	Alpha	0	0	Capcode [1234367
1234567	10	Test CAP	Alpha	0	1	Range 10 <u>N</u> ew
999132	0	Test Number	Alpha	0	1	
						Name Test CAP Delete
						✓ Output on Serial 1 Alpha    Type
						Level I A I D
						🔽 Output on Transmitter 👘 Maildrop
						Global option: Relay Action Time(ms) Delay(ms) Clear by Keys
						1: No Action 💌 0 0
						2: No Action 💌 0 0
						3: No Action 💌 0 0
						4: No Action 💌 0 0
						│ Transmitter options
						Capcode 999132 Level A 💌
						Output to control msg relay board options
						RCM3000 V 27 V Total of Relays Relay action
						Capcode alarm options

### Adding Capcodes (Addresses)

- 1. Enter a new CAP code by clicking on the "New" Button.
- 2. Enter the new CAP code in the "Capcode" box and the name in the name box below. i.e. 1234567 TEST CAP. The name is just an identifier and is not compulsory.
- 3. If a range of cap codes is required then select the first cap code and the range that you wish to monitor e.g. entering cap code 1000000 and a range of 50 will monitor cap codes 1000000 to 1000050.
- 4. Set each of the desired outputs individually for each cap code by highlighting the cap code in the Left hand window and then selecting the outputs on the Right.

## **Output Options**

### Serial 1

The message received on this address/cap code will output on serial 1 – Set serial options (global) in the Serial Options window. For some serial formats, such as: "Control Input", "GPS Input", "IPage Input", "TNPP Output", "TNPP Input", "Output to Relay Board", "Message Direct to Relay Board" and "Message Manager", it is default to input or output all data through the serial and does not need to tick this option.

### Serial 2 (PDT/PDR Only)

The message received on this address/cap code will output on serial 2 – Set serial options (global) in the Serial Options window. For some serial formats, such as: "Control Input", "GPS Input", "IPage Input", "TNPP Output", "TNPP Input", "Output to Relay Board", "Message Direct to Relay Board" and "Message Manager", it is default to input or output all data through the serial and does not need to tick this option.

#### Print

The message received on this address/cap code will be output on the Printer port (parallel printer) or Serial 1 (serial printers). Set printer options (global) in the Printer Options window.

### Maildrop

Sets this address as a maildrop capcode. Messages will be stored and overwritten automatically in the Maildrop area of the display and will not be stored in the normal messages area.

### Туре

This option allows the type of message received to be set. In Flex Templates the options are Alpha, Alpha Warning and Alpha Watch. In POCSAG the tone and numeric options are added. Note: Alpha Warning and Alpha Watch are special settings that allow different initial alerts to be set for messages received on that capcode.

### Level

Sets the POCSAG levels for the capcode(ONLY in POCSAG Templates)

### Relays 1-4

Sets the action that will occur on each of the 4 on board relays on receipt of any message on that capcode. Relays are Normally Open. Options are

- 1. Close Relay
- 2. Open Relay
- 3. Momentary Close Relay for a period (in msecs)

#### **Global Option Clear By Keys**

If selected any relay action initiated on that selected relay, by any capcode, will be cancelled (reset to normal condition) by hitting any key (PDT3000 only).

#### **Output to Transmitter**

When a transmitter is connected this sets the output capcode and POCSAG level to which the message received on this address will be transmitted in POCSAG.

### **Output to Control Relay Board**

This sets the actions of any one or more of the relays contained on the RCM3000 module. Each RCM3000 adds 32 additional relays and may be daisy chained. (Note: This only works when one of the serial output format is selected as "Output to Relay Board").

Select the "Total of Relays" which are determined by the number of the chained RCM3000 modules.

Click the "Select relay action" Button to start up the Capcode Control Relay Board Settings Window.

### **Capcode Control Relay Board Settings Window**

Relay       Action       Time         1       Close       0         2       No Action       0         3       No Action       0         4       No Action       0         5       No Action       0         6       No Action       0         7       Momenta       30000         8       No Action       0         9       No Action       0         10       Close       0         12       No Action       0         13       No Action       0         14       No Action       0         15       No Action       0         16       Momenta       60000         17       No Action       0         18       No Action       0         20       No Action       0         21       No Action       0         22       Close       0         23       No Action       0         24       No Action       0         25       Close       0         26       No Action       0         27       No Action       0	📟 Capo	ode Contro	ol Relay Boa	ard Settings 📃 🗖 🗙
2         No Action         0           3         No Action         0           4         No Action         0           5         No Action         0           6         No Action         0           7         Momenta         30000           8         No Action         0           9         No Action         0           9         No Action         0           10         Close         0           11         No Action         0           12         No Action         0           13         No Action         0           14         No Action         0           15         No Action         0           16         Momenta         60000           17         No Action         0           18         No Action         0           20         No Action         0           21         No Action         0           22         Close         0           23         No Action         0           24         No Action         0           25         Clear All         0	Relay	Action	Time	Relay board options
2         No Action         0           3         No Action         0           4         No Action         0           5         No Action         0           6         No Action         0           7         Momenta         30000           8         No Action         0           9         No Action         0           9         No Action         0           10         Close         0           11         No Action         0           12         No Action         0           13         No Action         0           14         No Action         0           15         No Action         0           16         Momenta,         60000           17         No Action         0           18         No Action         0           20         No Action         0           21         No Action         0           22         Close         0           23         No Action         0           24         No Action         0           25         Clear All         0	1	Close	0	OK
4       No Action       0         5       No Action       0         6       No Action       0         7       Momenta       30000         8       No Action       0         9       No Action       0         10       Close       0         12       No Action       0         13       No Action       0         14       No Action       0         15       No Action       0         16       Momenta       60000         17       No Action       0         18       No Action       0         20       No Action       0         21       No Action       0         22       Close       0         23       No Action       0         24       No Action       0         25       Clear All       0         26       No Action       0				
4       No Action       0         5       No Action       0         6       No Action       0         7       Momenta       30000         8       No Action       0         9       No Action       0         10       Close       0         12       No Action       0         13       No Action       0         14       No Action       0         15       No Action       0         16       Momenta       60000         17       No Action       0         18       No Action       0         19       Open       0         20       No Action       0         21       No Action       0         22       Close       0         23       No Action       0         24       No Action       0         25       Clear All       0         26       No Action       0	3	No Action	0	Davet
6       No Action       0         7       Momenta       30000         8       No Action       0         9       No Action       0         10       Close       0         12       No Action       0         13       No Action       0         14       No Action       0         15       No Action       0         16       Momentay       60000         17       No Action       0         18       No Action       0         19       Open       0         22       Close       0         23       No Action       0         24       No Action       0         25       Clear       0         26       No Action       0	4	No Action	0	<u>—————————————————————————————————————</u>
7       Momenta       30000         8       No Action       0         9       No Action       0         10       Close       0         11       No Action       0         12       No Action       0         13       No Action       0         14       No Action       0         15       No Action       0         16       Momentary.       60000         17       No Action       0         18       No Action       0         19       Open       0         20       No Action       0         21       No Action       0         22       Close       0         23       No Action       0         24       No Action       0         25       Clear 0       0         24       No Action       0         25       Close       0         25       No Action       0         26       No Action       0	5	No Action	0	
8         No Action         0           9         No Action         0           10         Close         0           11         No Action         0           12         No Action         0           13         No Action         0           14         No Action         0           15         No Action         0           16         Momenta,         60000           17         No Action         0           18         No Action         0           19         Open         0           20         No Action         0           21         No Action         0           22         Close         0           23         No Action         0           24         No Action         0           25         Clear All         0           26         No Action         0	6	No Action	0	
9         No Action         0           10         Close         0           11         No Action         0           12         No Action         0           13         No Action         0           14         No Action         0           15         No Action         0           16         Momentary Close             17         No Action         0           18         No Action         0           19         Open         0           20         No Action         0           21         No Action         0           22         Close         0           23         No Action         0           24         No Action         0           25         Clear All         0           26         No Action         0	7	Momenta	30000	
10       Close       0       Capcode: 1234567         11       No Action       0       Relay:       16         12       No Action       0       Momentary Close       Image: Close Time (ms)         13       No Action       0       Momentary Close       Image: Close Time (ms)         14       No Action       0       Momentary Close Time (ms)       60000         15       No Action       0       60000       Felay       Action         16       Momenta       60000       60000       Felay       Action       Time(ms)         19       Open       0       26:       No Action       0       27:       No Actior       0         21       No Action       0       23:       No Action       0       27:       No Actior       0         25       Clear All       0       0       0       0       0       0	8	No Action	0	
11       No Action       0         12       No Action       0         13       No Action       0         14       No Action       0         15       No Action       0         16       Momentary Close       ▼         17       No Action       0         18       No Action       0         19       Open       0         20       No Action       0         21       No Action       0         22       Close       0         23       No Action       0         24       No Action       0         25       Clear All       0         26       No Action       0	9	No Action	0	
12       No Action       0         13       No Action       0         14       No Action       0         15       No Action       0         16       Momentary.       60000         17       No Action       0         18       No Action       0         19       Open       0         20       No Action       0         21       No Action       0         22       Close       0         23       No Action       0         24       No Action       0         25       Clear All       0         26       No Action       0	10	Close	0	Capcode: 1234567
12       No Action       0         13       No Action       0         14       No Action       0         15       No Action       0         16       Momenta       60000         17       No Action       0         18       No Action       0         19       Open       0         20       No Action       0         21       No Action       0         22       Close       0         23       No Action       0         24       No Action       0         25       Clear All       0         26       No Action       0		No Action	0	Belau: 16
14       No Action       0         15       No Action       0         16       Momenta       60000         17       No Action       0         18       No Action       0         19       Open       0         20       No Action       0         21       No Action       0         22       Close       0         23       No Action       0         24       No Action       0         25       Clear All       0         26       No Action       0	12	No Action		
15       No Action       0         16       Momenta       60000         17       No Action       0         18       No Action       0         19       Open       0         20       No Action       0         21       No Action       0         22       Close       0         23       No Action       0         24       No Action       0         25       Clear All       0         26       No Action       0	13	No Action	0	Momentary Close
15       No Action       0         16       Momenta       60000         17       No Action       0         18       No Action       0         19       Open       0         20       No Action       0         21       No Action       0         22       Close       0         23       No Action       0         24       No Action       0         25       Clear All       0         26       No Action       0		No Action		Momentary Close Time (ms)
17       No Action       0         18       No Action       0         19       Open       0         20       No Action       0         21       No Action       0         22       Close       0         23       No Action       0         24       No Action       0         25       Clear All       0		No Action		procession and a second s
18       No Action       0       Relay       Action       Time(ms)       Relay       Action       Time(ms)         19       Open       0       26:       No Action       0       27:       No Action       0         20       No Action       0       26:       No Action       0       27:       No Action       0         21       No Action       0       22:       Close       0       27:       No Actior       0         23       No Action       0       25:       Clear All       0       0       0         26:       No Action       0       0       0       0       0       0		Momenta		60000
10       No Action       0         19       Open       0         20       No Action       0         21       No Action       0         22       Close       0         23       No Action       0         24       No Action       0         25       Clear All       0         26       No Action       0	17	No Action		
20         No Action         0           21         No Action         0           22         Close         0           23         No Action         0           24         No Action         0           25         Clear All         0           26         No Action         0	18	No Action	0	
20         No Action         0           21         No Action         0           22         Close         0           23         No Action         0           24         No Action         0           25         Clear All         0           26         No Action         0	19	Open	0	26: No Actior 🕶 0 27: No Actior 🕶 0
22Close023No Action024No Action025Clear All026No Action0		No Action		
23     No Action     0       24     No Action     0       25     Clear All     0       26     No Action     0	21	No Action	0	
24     No Action     0       25     Clear All     0       26     No Action     0	22	Close	0	
25 Clear All 0 26 No Action 0		No Action		
26 No Action 0	24	No Action	0	
	25	Clear All	0	
27 No Action 0	26	No Action	0	
	27	No Action	0	

Click any number of relays at the relay list table in this Window, then select the action in the "Relay Action" and "Momentary Close Time" box. After finishing all settings, click the "OK" Button to save the settings and return to the last window.

Click the "Reset" button to clear the relay list table and give up the current settings.

#### **Capcode Alarm Options**

This sets the alarm actions of any capcode in the Capcodes Window. When a capcode is not received within a certain time period, it will trigger an alarm which can be the relays or the buzzer.

### **Capcode Alarm Settings Window**

📟 Сарсо	de Alarm Settings			
Capcod	e alarm options			
1000	00 Alarm inter	val(ms)		<u>0</u> K
	Trigger Buzzer Options           Image: Buzzer Options	ıle 💌		
	Trigger Relay Options Relay Action 1: No Action	Time(ms)	Delay(ms) 0	Global option: Clear by Keys
	2:     No Action       3:     No Action       4:     No Action	• 0 • 0 • 0	0	
	Output a message on s	C Outp	creen Option ut on Serial 2	

Input a certain time period in the "Alarm goes off time (ms)" text-box. After this period time (ms), if the unit does not receive the capcode, it will trigger alarms.

Click the "Use audible alert" check-box, the unit will trigger the buzzer alarm.

Sets the action that will occur on each of the 4 on board relays when any message on that capcode is not received within above setting time.

Tick the "Output on serial 1" or the "Output on serial 2" or the "Output on PDT screen" (PDT ONLY) when any message on that capcode is not received with above setting time.

# **Printer Options Window**

Printer Settings		
Printer Output Options	<ul> <li>Output time and date</li> <li>Output capcode</li> <li>Output form feed after every message</li> <li>Put header on seperate line</li> </ul>	<u>0</u> K
Printer page size Printer page width Lines between msgs Number of copies to print	80 6 0	
Printer Type Parallel/Serial Pinter	Parallel AmTech Double Size Brother M-1309 Brother M-1409 CITOH 7500 Default	

# **Output Options**

### **Output to Printer**

Turns printing on (global option). Note: printing still needs to be set for each individual capcode in the Capcodes window.

### **Output Time & Date**

Outputs Time & Date to Printer.

#### **Output Capcode**

Outputs Capcode to Printer.

### **Output Form Feed**

Outputs a Form Feed to Printer.

#### Put Header on Separate Line

Puts the Header (Date/Time, Capcode) on the first line followed by the message after a line feed.

#### **Printer Page Width**

Set the width of the paper. It may refer number of characters per line if a printer is set up as double size font.

### **Output Lines Between Messages**

Outputs a selectable number of line feeds following each message.

### **Printer Type**

Set printer type as parallel or serial.

### Number of copies to print

Output a number of copies to printer

### Printer

Contains a number of common printer drivers.

# **Serial Options Window**

Serial 1		<u></u> K
Serial Format	Custom	Transmitter
Header String	\r\n Capcode: %a Name: %n	Baud Rate Type
Footer String	\r\n	512 💌 No Transmitter 💌
Baud Rate	57600	Retransmit All Capcodes
Parity	none	Invert Transmitting Data
Stop	one	Stop Receiving As Transmitting
Serial 2		Delay Receiving(ms):
Serial Format	Custom	Key up Delay
Header String		Delay time(ms): 0
Footer String		Transmit Input Response
Baud Rate	57600	Output Response on Serial
Parity	none	Setup Response Messages
Stop	one	Transmit GPS Clock Data
_	nit to be controlled remotely	Setup <u>G</u> PS Clock

### Serial

Set up serial output or input options

### **Serial Format**

Contains a number of standard settings for serial options to commonly used equipment and software applications. For some serial formats, such as: "Control Input", "GPS Input", "IPage Input", "TNPP Output", "TNPP Input", "Output to Relay Board", "Message Direct to Relay Board" and "Message Manager", it is default to input or output all data through the serial port.

#### **Header String**

Sets the header string at the beginning of the serial output mainly for the "Custom" format.

#### **Footer String**

Sets the footer string at the end of the serial output mainly for the "Custom" format.

Some standard settings for header and footer strings are:

- rn new line
- %n or %N name of address
- %a address in decimal
- %c address in 7-digit decimal (If address is larger than 7-digit, it will be cut to 7-digit. If it is less than 7 digits, zero will be padded)
- %A address in hexadecimal
- %p protocol
- %m message type
- %b baud rate in 4-digit decimal, i.e. 0512
- %B baud rate in hexadecimal
- %I numeric level, i.e. 0-3
- %L alpha level, i.e. A-D
- %t 24 hour with second
- %T 24 hour time
- %s 12 hour with second
- %h 12 hour time
- %d day
- %M month
- %y year
- %Y day/month/year
- %U month/day/year
- %I year/month/day

For example: \r\n Name:%n Capcode:%a Protocol:%p Time:%T Date:%Y \r\n

### Transmitter

Select and set up a transmitter

### Туре

Salcom 11-72 transmitter connected to the serial port one

Tait 800 connected to the DB25 port (TTL)

Maxon SD-125 radio connected to the DB25 port (TTL)

Apollo TX-125 transceiver connected to the DB25 port (TTL)

#### **Retransmit all capcodes**

Output all capcodes and messages to the transmitter

### **Invert Transmitting Data**

Output inverted bit stream data to the transmitter

#### Stop receiving during retransmitting

The receiver will stop receiving while it is transmitting. This must be set if retransmitting on the same frequency.

#### **Delay receiving**

The receiver will be delayed to restart while the transmitting is finished. This should be used if retransmitting on the same frequency.

#### Key up Delay

The unit will hold data for a period of time(ms) before transmitting it. This will stop receiving as well before and after transmitting if set above "Stop receiving during retransmitting"

### **Transmit Input Response**

Transmit data from serial control input or logical level input pins (DB25 TTL) on the selected transmitter.

#### **Output Response on Serial**

Output the data from serial control inputs and logical level input pins to the other serial port when one serial format is "Control Input" and the other serial format is "Control Output", or "TNPP Output", or "Custom", or "RC8660 TTS"

#### **Setup Response Messages**

Set messages for serial control inputs and logical level input pins

#### **Response Input Options Window**

This window is used to set the messages and transmit them with the specific capcodes.

Resp	onse Inpu	t Options					Ŀ	
Respor	nse Serial Inp	out Options						
🔽 Se	arch from red	cieved mess	ages and ou	utput to TTS			0	ĸ
	nput Messa	ge Text					<u>N</u> e	ew
Messa							Del	ete
Output ~&2	Message Te	ext						
			04507					
	Message Ca		34567				_	
	Message Te	ext			ssage Text		Capcode	
Messa Messa				~8.1 ~8.2			123456	
Respor	nse for Logic	al Level Inp	ut Options—	1111				
Respor Input	Individual	Debounce	Retrigger	Repeat	State High	000000000000000000000000000000000000000	te Low	Norm
Respor Input Pins	Individual Capcode	Debounce Time(ms)	Retrigger Delay(ms)	Repeat Interval(ms	) Message	Me	te Low ssage	Norm
Respor Input Pins I 1	Individual Capcode 1234567	Debounce Time(ms)	Retrigger Delay(ms) 0	Repeat Interval(ms	) Message High1	Me Low1	33933333339999	Norm
Respor Input Pins I 1 □ 2	Individual Capcode 1234567 1234567	Debounce Time(ms) 1000 0	Retrigger Delay(ms) 0	Repeat Interval(ms 0	) Message High1 High	Me Low1 Low	33933333339999	Norm
Respor Input Pins I 1 I 2 I 3	Individual Capcode 1234567 1234567 1234567	Debounce Time(ms) 1000 0	Retrigger Delay(ms) 0 0 0	Repeat Interval(ms 0 0	) Message High1 High High	Me Low1 Low	33933333339999	Norm
Respor Input Pins I 2 3 4	Individual Capcode 1234567 1234567 1234567 1234567	Debounce Time(ms) 1000 0 0	Retrigger Delay(ms) 0 0 0 0	Repeat Interval(ms 0 0 0	) Message High1 High High High	Me  Low1  Low  Low  Low	33933333339999	Norm
Respor Input Pins I 1 I 2 I 3 I 4 I 5	Individual Capcode 1234567 1234567 1234567 1234567 1234567	Debounce Time(ms) 1000 0 0 0 0	Retrigger Delay(ms) 0 0 0 0	Repeat Interval(ms 0 0 0 0 0	) Message High1 High High High High	Me Low1 Low Low Low	33933333339999	Norm
Respor Input Pins I 1 I 2 I 3 I 4 I 5	Individual Capcode 1234567 1234567 1234567 1234567 1234567 1234567	Debounce Time(ms) 1000 0 0 0 0 2000	Retrigger Delay(ms) 0 0 0 0 0 0	Repeat Interval(ms 0 0 0 0 0	) Message High1 High High High High6	Me Low1 Low Low Low Low Low6	33933333339999	Norm
Respor Input Pins I 2 I 3 I 4 I 5 I 6 I 7	Individual Capcode 1234567 1234567 1234567 1234567 1234567 1234567 1234567	Debounce Time(ms) 1000 0 0 0 2000 0	Retrigger Delay(ms) 0 0 0 0 0 0 0	Repeat Interval(ms 0 0 0 0 0 0 0 0	) Message High1 High High High High6 High	Me Low1 Low Low Low Low Low6 Low6	33933333339999	Norm
Respor Input Pins I 2 I 3 I 4 I 5 I 6	Individual Capcode 1234567 1234567 1234567 1234567 1234567 1234567 1234567	Debounce Time(ms) 1000 0 0 0 0 2000	Retrigger Delay(ms) 0 0 0 0 0 0 0 0	Repeat Interval(ms 0 0 0 0 0 0 0 0	) Message High1 High High High High6 High High	Me Low1 Low Low Low Low6 Low6 Low	33933333339999	Norm
Respor Input Pins 2 2 3 4 5 5 5 5 7 5 8	Individual Capcode 1234567 1234567 1234567 1234567 1234567 1234567 1234567 1234567	Debounce Time(ms) 1000 0 0 0 2000 0 0 0	Retrigger Delay(ms) 0 0 0 0 0 0 0 0 0	Repeat Interval(ms 0 0 0 0 0 0 0 0 0 0 0 0 0	) Message High1 High High High High6 High High	Me Low1 Low Low Low Low Low6 Low6	33933333339999	Norm
Respor Input Pins 7 1 7 2 7 3 7 4 7 5 7 6 7 7 8 7 8 7 9	Individual Capcode 1234567 1234567 1234567 1234567 1234567 1234567 1234567	Debounce Time(ms) 1000 0 0 0 2000 0 0 0 0	Retrigger Delay(ms) 0 0 0 0 0 0 0 0	Repeat Interval(ms 0 0 0 0 0 0 0 0	) Message High1 High High High High6 High High	Me Low1 Low Low Low Low Low Low	33933333339999	

#### Search messages from the receiver and output to TTS

Tick this, will search from received messages from the receiver and will output the replaced messages to TTS if having any matched message. This function only applies when the serial two format is "RC8660 TTS".

#### **Response Serial Input Options**

Set the input messages which correspond to the output messages with the specific capcodes. A finished sign for input messages should be a line feed, or a carry return.

If the "Catch Input Message Text" is '\*' and the "Output Message Text" is '\*', this function will output all input messages except the finished signs.

#### **Response for Logical Level Input Options**

Set output messages for input pin states. The messages will be transmitted or output on serial when the input pin state changes.

Input Pins: set pins whose states will be monitored.

Capcode: a different capcode can be assigned per input.

Debounce Time: time that contact must be triggered for before the alarm signal is generated.

Retrigger Delay: a period during which a new alarm will not be triggered again after the first trigger if multiple triggers occur. This only applies to non normal alarm trigger. Zero will disable this function.

Repeat Interval: this is the time interval after which if the state of contact has not reverted to its normal state then the message will be retransmitted and will continue to be retransmitted on this interval until the alarm reverts to normal. This only applies to non normal alarm trigger. Zero will disable this function.

State High Message: a message will be transmitted or output on the serial when the pin state high occurs. If no message is entered then no alarm transmission will occur on the change to high state.

State Low Message: a message will be transmitted or output on the serial when the pin state low occurs. If no message is entered then no alarm transmission will occur on the change to low state.

Normal High: Set normal or start pin state as high. If not selected then the normal state is low.

# **Message Relay Options Window**

This window is used to set global relay control actions according to the text contained in a message received on the selected capcodes. Up to 256 actions may be set for each cap code from version 7 or over. Sets the action that will occur on each of the 4 on board relays and the relays contained on the RCM3000 module (if connected) on receipt of matched text in the message on a specified capcode.

'ext	Capcode	Range	Relay1	Time1	Delay1	Message relay options	
est	All	0	Mom	5000	0	Message Text	<u>0</u> K
elay	All	0	No A	0	0	Delay -	
						Search in Capcode Range	New
							<u>D</u> elete
							Global option Clear by Keys
						1: No Action 💌 0 0	Γ
						2: Delay Momen 💌 2000 9000	Γ
						3: No Action 💌 0 0	
						4: No Action 💌 0 0	Γ
						🦳 Only match at beginning	
						Output to control msg relay board options	
						RCM3000 - 27 - Total of Relays	Relay action

### **Adding Text to Control Relays**

- 1. Click on the "New" Button to create a list in the message relay options table.
- 2. Enter the new text to be matched in the specified message in the "Message Text" box.
- 3. Select the specified capcode whose messages will be searched to match the text in the "Message Text" box.
- 4. Set the action that will occur on each of the four on board relay and the relays contained on the RCM3000 relay board.

### **Control Relay Options**

#### Relays 1-4

Sets the action that will occur on each of the 4 on board relays on receipt of any message on that capcode. Relays are Normally Open. Options are

1. Close Relay

- 2. Open Relay
- 3. Momentary Close Relay for a period (in milliseconds)
- 4. Delay Momentary Close: delay in milliseconds then momentary close in milliseconds
- 5. Clear by Keys resets the relay to open on pressing any key.

### **Global Option Clear By Keys**

If selected any relay action initiated by any Message Text will be cancelled (reset to normal condition) by hitting any key (PDT3000 only).

### Only match at beginning

If selected only text at the beginning of the message will be matched with the target text

### **Output to Control Relay Board Options**

This sets the actions of any one or more of the relays contained on the RCM3000 module. Each RCM3000 adds 32 additional relays and may be daisy chained. (Note: The RCM3000 connects to a serial port and the serial output format must be set to "Output to Relay Board").

Select the "Total of Relays" which is determined by the number of chained RCM3000 modules connected (x32).

Click the "Select relay action" Button to start up the Message Control Relay Board Options Window.

<b>D</b>			Relay board options
Relay	Action	Time	
1	Close	0	<u>0</u> K
2	No Action	0	
3	No Action	0	<u>R</u> eset
4	Open	0	
5	No Action	0	Matching text:
6 7	No Action Momenta	0 10000	
8	No Action	0	
0 9	No Action	0	
9 10	Momenta	50000	Capcode: All
11	No Action	0	
12	No Action	0	Relay: 19
13	No Action	0	Momentary Close 💌
14	No Action	Ō	
15	No Action	0	Momentary Close Time (ms)
16	Close	0	80000
17	No Action	0	
18	No Action	0	Relay Action Time(ms) Relay Action Time(ms)
19	Momenta	80000	26: No Action 💌 0 27: No Action 💌 0
20	No Action	0	
21	No Action	0	
22	Clear All	0	
23	No Action	0	
24	No Action	0	
25	No Action	0	
26	No Action	0	
27	No Action	0	

#### **Message Control Relay Board Options Window**

Click any number of relays at the relay list table in this Window, then select the action in the "Relay Action" and "Momentary Close Time" box. After finishing all settings, click the "OK" Button to save the settings and return to the last window.

Click the "Reset" button to clear the relay list table and give up the current settings.

# Alert Options Window (PDR/PSR Only)

Alert settin	lê2		
Alert options			
□ Use audibl	e alert	<u>0</u> K	
Beep type	Double	•	
Alert time (s)	10		

This window appears only in PDR/PSR templates. (Alerts are set in the PDT via the PDT user interface).

It is used to turn audible alerting on and off and set the type and length of the audible beep.

# **Frequency & Notes Window**

Frequency and Notes		[	
Frequency and Notes			
Frequency 157.95 MHz		<u>0</u> K	
Invert decoder bit stream	Set decoder baud rate:	1200	•
Receiver type: RCM	Allow decoding errors:	any	•
Format Output: Upper Case 💌	Remove leading chars:	0	•
Remove duplicate messages rec	eived within:	0	•
	LCD contrast base:	15	•
Notes			

### Frequency

Set the synthesized frequency. Note: the frequency must be within the frequency band of the receiver supplied. This will normally be noted in the Notes section.

## **Invert Decoder Bit Steam**

Use this if your pager is set to data inverted. Consult your carrier before using this option.

## Set Decoder Baud Rate (POCSAG ONLY)

Use to set the baud rate (POCSAG only). This may be set to auto although better performance may be experienced if all pagers are on one baud rate and the unit is set to that baud rate.

# Flex Network Options (Flex ONLY)

The options are only related to Flex network:

1. None: no action.

- 2. Set Time: Allow Flex Paging Network to set the unit time by air.
- 3. Output CTAP: Output temporary addresses(CTAP).
- 4. Time&CTAP: Allow Flex Paging Network to set the unit time by air and Output temporary addresses(CTAP).
- 5. Output Code: Output temporary addresses with the counting code number(replace the original message).
- 6. Time&Code: Allow Flex Paging Network to set the unit time by air and Output temporary addresses with the counting code number.

### **Receiver type**

Please consult with WiPath before using this option. A RCM receiver is being progressively introduced from Q3 2005. On the PDT3000 an RSSI (Received Signal Strength Indicator) will appear on the display when the RCM receiver is in use.

### Allow decoding errors

Selects the number of character errors that the receiver will accept before it discards (ignores) the message.

## **Format Output**

- 1. None: no action.
- 2. Remove Ctrl Chara: remove some control(unreadable) characters in a message before it outputs the message.
- 3. Upper Case: output all messages as upper case.
- 4. Both: remove control(unreadable) characters from the messages and output as upper case.
- 5. RSSI Tag: attach RSSI(Receiver Signal Strength Indecating) data at the end of messages.
- 6. Remove&Tag: remove some control(unreadable) characters in the message and attach RSSI data at the end of the message.
- 7. Upper Case&Tag: output all messages as upper case and add RSSI data tag at the end of the message.
- 8. All: all three options.

### **Remove leading characters**

Removes the selected number of leading characters in a message before it outputs the message or applies any message filters. This is used to ignore special characters used by some systems for special decoding options.

## LCD contrast base

This option is only for the PDT. It sets the base contrast value for the LCD display. Recommended: 0 for the green screen and 15~30 for the blue screen.

### **Remove duplicated messages**

This option will ignore the duplicated messages for the period which you select.

### Notes

An area to make general notes on this unit. This information is stored on the PDT/PDR so that it can be read whenever the unit is programmed.

# **OTAP Options Window**

ode Option
OK
~
~

Over The Air Programming capcode options give the PDT/PDR/PSR ability to add or to delete capcodes for receive and display only (consider other settings e.g. print, relay etc.).

### **Enable Over The Air Programming Capcode Option**

Set the PDT/PDR/PSR to have Over The Air Programming capcode function which can add or delete capcodes. This function can decrypt OTAP messages which are created by the "OTAP Encryption" program in the PDT3P folder.

## **OTAP Pager ID**

Set the PDT/PDR/PSR to have a unique 7-digit number id to decode the OTAP message. The pager only processes the OTAP message when it contains its id or broadcast id or its group id. The 1200000 is broadcast id which can program all units. The first 3-digit following by 5 zero is a group id which can program all starting with that 3 digits. For example: 1230000 would program all starting with 123 and following any 5 digits like 1234567.

### **Capcodes Levels**

This window is for display OTAP capcode and levels ONLY(can not edit the contents in this window) after operating "Get OTAP Capcode" from ES tool bar

# **PDT UI Settings Window**

This window will appear in the PDT3000 templates only. It is used to set standard User Interface settings that are normally set by the user via the PDT3000 display.

PDT UI Settings					
-Setup PDT User Interface S		PDT UI	optic	ns	<u>o</u> K
Backlight Level 1	18	-		Use audio alert	
Backlight Level 2	5	-	Г	Beep continuously	
Contrast Level	10	-	Γ	Reminder beep	
Backlight Time	10s	-	☑	Display messages on a	rrival
Display Period	30s	-	Γ	Backlight on when mes	sages on arrival
Font Size	Small	•		Show name before me	ssage
Scroll Lines	1	-		Show capcode before	message
Date Format	International	-		Show number before m	iessage
Time Format	12H	-		Combine duplicate mes	sages
Initial Alert Time	10s	-		Relay lockout	
Warning Initial Alert Time	28		Γ	Show time stamp	
Watch Initial Alert Time	28	Ţ		Allow to delete all mess	ages
Reminder Interval	2%			Allow to delete all read	messages
Reminder Period	15m	<u> </u>		Allow to lock messages	;
Lockout Period		-		Allow to set time	
Max Number of Messages	30s	-	Γ	Display maidrop instant	ly .
Relay Lockout Start Time	40	4	Γ	P Key for delete all mes	sages
Relay Lockout End Time	7PM	-		P Key for switch backli	ght
Helay LOCKOULE NO TIME	6AM	-	Γ	Delete messages after	receiving for 24

### Use the following settings

If this box is checked the settings will be settable only from PDT3P and not from the PDT3000 user interface. (Except Backlight and contrast levels and the date and time).

## Settings

Function	Description	Settings
Backlight Level 1	Sets the initial display backlight level 1	1-20

Function	Description	Settings
Backlight Level 2	Sets the initial display backlight level 2	1-20
Contrast Level	Sets the initial display contrast level	1-20
Backlight Time	Set how long backlight is to remain on after key press	5s/10s/30s/1m/5m/ Permanent
Display Period	Set the amount of time the message will display for before reverting to main screen.	5s/10s/30s/1m/5m/ Permanent
Font Size	Sets the size of the message font on the display. Small, medium, large	
Scroll Lines	Sets the number of lines to scroll when the down button is pushed when a message is displayed.	1,3
Date Format	Display dates mm/dd/yy or dd/mm/yy	US or International
Time Format	12 or 24 hour	12 or 24
Initial Alert Time	How long beeper sounds on initial receipt of message	1s/5s/10s/30s/1m/ 5m
Warning Initial Alert Time	How long beeper sounds on initial receipt of a message on a Warning capcode.	0,1s,2s,3s,4s,5s,10s,3 0s,60s,300s
Watch Initial Alert Time	How long beeper sounds on initial receipt of a message on a Watch capcode.	0,1s,2s,3s,4s,5s,10s,3 0s,60s,300s
Reminder Interval	How often the reminder beep sounds - every	30s/1m/2m/3m/4m/5m
Reminder Period	How long reminder beep continues for	5m/10m/15m/30m/ Forever
Lockout period	The period during which no additional activation of relays shall occur given the same activation instruction.	0,1s,2s,3s,5s,10s,20s, 30s,1m,2m,3m,5m,10 m,20m,30m
Max Number of Messages	The Max number of messages can be displayed on PDT screen.	1,2,3,5,10,15,20,25,30, 35,40
Relay Lockout Start Time	The time to start locking out the relay actions	0,1,2,3,4,5,6,7,8,9,10,1 1,12,13,14,15,16,17,18 ,19,20,21,22,23
Relay Lockout End Time	The time to end locking out the relay actions	0,1,2,3,4,5,6,7,8,9,10,1 1,12,13,14,15,16,17,18 ,19,20,21,22,23
Audible Alert	Beeper sounds on receipt of message	On or Off

Function	Description	Settings
Beep Continuously	Beeper sounds until message is acknowledged by pressing any key	On or Off
Reminder Beep	Reminder beep sounds until message is read	On or Off
Display Messages on Arrival	Display message automatically when received	On or Off
Backlight On When Messages Arrive	Turn the backlight on on receipt of a message	On or Off
Show [Name] Before Message	Display the name assigned to the cap code/address at the beginning of the message (set via PDT3P)	On or Off
Show [Capcode] Before Message	Display Capcode at the beginning of the message.	On or Off
Show [Number] Before Message	Display the slot number of the message at the beginning of the message (1-40)	On or Off
Combine Duplicate Messages	If set to on & a message identical to a previous message is received it will not be displayed as a separate message	On or Off
Display Lines	Set no of lines of text on display - Changes Text size	On or Off
Relay Lockout	Turns the relay lockout function on or off - See Lockout period above	On or Off
Show Timestamp	Place the date and time of receipt at end of message	On or Off
Allow to delete all messages	Turns the delete all function on	On or Off
Allow to delete all Read messages	Turns the delete all read messages function on.	On or Off
Allow to lock messages	Allows user to lock messages	On or Off
Allow to set time	Allows user to set time	On or Off
Display maildrop instantly	Displays maildrop messages instantly	On or Off
P key to delete all messages	Changes P key from print to purge all - same as Delete All	On or Off
P key to switch backlight levels	Changes P key from print to switch two backlight levels	On or Off

# **PDT3000** Peripherals

This part describes how to connect a PDT3000 (or PDR/PSR) to supported peripherals.

## **Port Pin-out**

The usable ports on the PDT3000 are as follows:

DB25: parallel/printer output.

DB9: PC/serial output 1, and various other peripherals.

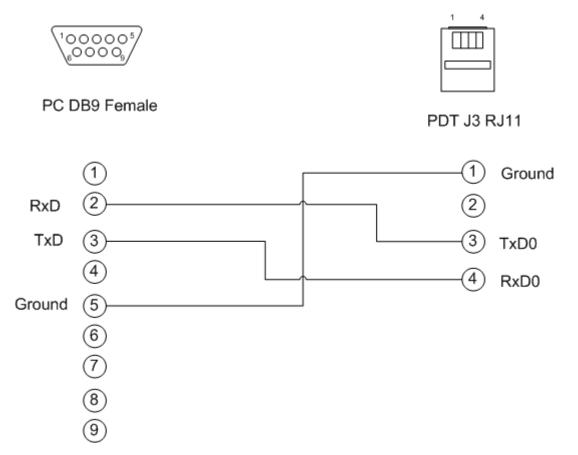
RJ11: PC/serial output 2.

RJ45: These two ports have 4 relays (2 each), they are wired for normally open, and normally closed outputs.

Antenna		a   1	Prin	5 Para nter Po P1	ort		DB9 Se Data I	Port		U11 1 4 52	RJ45 RJ45 Po Optional) 1 8 1 8 R1 R2	ower
		1	2	3	Pi 4	ns 5	6	7	8	9		
	S1	CD	RXD	TXD	DTR	GND	DSR	RTS	CTS	RI	RJ11/45 Plugs	
Its	S2	Gnd		TXD	RXD							
Ports	R1	Rly1 NC	Rly1 Com	Rlg1 NO	Rlg 2 NC	Fily 2 Com	Fily 2 NO	Alt •12v	Alt Gnd		Bottom	
	R2	Rly 3 NC	Rly 3 Com	Rly 3 NO	Rlg 4 NC	Fily 4 Com	Fily 4 NO	Alt +12v	Alt Gnd		Front	

### Serial Port2 to PC Cable

Serial output 2 RJ11 to PC DB9 cable



### Salcom 11-72

The Salcom 11-72 (or 11-78) is a NRZ FM transmitter used for pocsag paging. It can be set up from the "Serial Settings" window in the PDT3P by selecting transmitter type as "Salcom 11-72". It is connected on the PDT2000 serial output 1 (DB9).

11-72 connector(s)

DB15 pin 13 – data input 1, plug into PDT3000 DB9 pin 4 (DTR)

DB15 pin 5 – PTT, plug into PDT3000 DB9 pin 7 (RTS)

DB15 pin 1 – GND, plug into PDT3000 DB9 pin 5 (GND)

## Salcom 11-62

The Salcom 11-62 is a POCSAG encoder and transmitter. For new users the 11-72 is recommended as it is significantly less expensive, and the functionality (for PDT3000 users) is identical. It can be set up when by selecting "Salcom Encoder" as the serial output format and the 11-62 is connected to the serial 1 (DB9).

DB9 – DB9, via a straight through cable.

Pin 2 – pin 2 Pin 3 – pin 3 Pin 5 – pin 5

All other pins not used.

### Tait T800

The Tait T800 is a larger NRZ FM transmitter used for pocsag paging. It is connected to the PDT3000 DB25 and is set up by selecting transmitter type as "Tait T800" on the "Serial Settings" window.

PDT3000 DB25 pin 1 data out

PDT3000 DB25 pin 16 PTT

PDT3000 DB25 pin 18-25 Ground

### Maxon SD-125

The Maxon SD-125 is a NRZ FM transmitter used for pocsag paging. This device is connected with PDT3000 DB25 (parallel port) and can be set up by selecting transmitter type as "Maxon SD-125" in the "Serial Settings" window.

PDT3000 DB25	SD-125 DB9
Pin1(Tx)	pin1 or pin9(Tx)
Pin16(PTT)	pin3(PTT)
Pin15(CD)	pin6(CD)
Pin25(G)	pin4(G)
Power	pin5(+12V)

## Apollo TX-125

The Apollo TX-125 is a NRZ FM transmitter used for POCSAG paging. This device is connected with PDT3000 DB25 and can be set up by selecting transmitter type as "TX-125" on the "Serial Settings" window. Printer type must not be "parallel" in Printer settings of PDT3P.

PDT/PDR DB25 to TX-125 DB9					
(DB9 Male)					
pin7(Digital Mod In)					
pin1(PTT)					
pin6(CD)					
pin5(Grd)					

## TXF-2000U

The Apollo TX-125 is a low powered NRZ FM transmitter used for POCSAG paging. This device is connected with PDT3000 DB25 and can be set up by selecting transmitter type as "TXF-2000U" on the "Serial Settings" window. Printer type must not be "parallel" in Printer settings of PDT3P.

PDT/PDR DB25 to TXF-2000U Connector

(DB25 Male)	(4-Pin Connector)
Pin1(Tx)	pin1(Data)
Pin16(PTT)	pin4(PTT)
Pin25(G)	pin2(Grd)
Power 9~12V	pin3(VCC)

### **PSR3000** with Transmitters

The configuration for PSR to connect with transmitters(PSR3000 schematic V605 and PDTP4.3)

PSR3000 J2	Transmitters
Pin1(Ground)	Ground
Pin5(OUT1)	PTT
Pin7(OUT2)	Tx data
Pin4(IO3)	Channel Detect(ONLY for Maxon SD-125)

#### Notes:

- 1. Pull-up resistors( 3k~10k) must be connected for PTT and Tx data pins(by request: from 5V pin2 to pin5 PTT and to pin7 Tx data).
- 2. A pull-down resistor must be connected for Maxon SD-125 CD pin(from pin4 IO3 CD to pin1 ground)
- 3. When PSR uses transmitters, it can not use relays
- 4. Old ROM(version number is below 4.3) used different PTT, Tx data and CD pins. The PTT was on OUT3(p4d6), Tx data was on p4d7 and CD was on IO1(p5d1)

### **Alarm Inputs**

The parallel port (DB25) may be used for monitoring alarm inputs, use the following configuration.

PDT3000 DB25	Input Pins in PDT3P
Pin25(Ground)	Signal Ground
Pin2(Input1)	Logic Input 1
Pin3(Input2)	Logic Input 2
Pin4(Input3)	Logic Input 3
Pin5(Input4)	Logic Input 4
Pin6(Input5)	Logic Input 5
Pin7(Input6)	Logic Input 6
Pin8(Input7)	Logic Input 7
Pin9(Input8)	Logic Input 8
Pin10(Input9)	Logic Input 9
Pin11(Input10)	Logic Input 10
Pin12(Input11)	Logic Input 11
Pin13(Input12)	Logic Input 12
Pin14(VCC)	5VDC supply (needs to be factory set)

PSR may be used for monitoring alarm inputs, use the following configuration (for PSR3000 schematic V605 and PDTP4.3).

PSR3000 J2	Input Pins in PDT3P
Pin1(Ground)	Signal Ground
Pin8(IO1)	Logic Input 1
Pin6(IO2)	Logic Input 2

The signal is considered high when it is above +3.15v, and low when it's below +1.35v. For detailed specification on the tolerance of the input please look up the MC74HC245A converter IC manual. PDT/PDR DB25 Pins 10 to 13 have pull down resistors fitted as standard, the remainder need to have pull down resistors added (by request) if the unit is to be used for alarm monitoring. PSR J2 IO1 and IO2 do not have pull down resistors, the remainder need to have pull down resistors added (by request).

### **PDT/PDR/PSR ROM Limitation**

In the pdtV7.0.rom, the limitations are:

Max message length: 1024

Max number of Flex CTAP cap code: 1

Max number of matched cap codes for message relay: 256

In the pdrV3.8.rom, the limitations are:

Max message length: 1024

Max number of Flex CTAP cap code: 64

Max number of matched cap codes for message relay: 256

In the psrV3.8.rom, the limitations are:

Max message length: 1024

Max number of Flex CTAP cap code: 64

Max number of matched cap codes for message relay: 256

The psrVx.x.rom is for PSR ONLY. PDT can only use pdtVx.x.rom and PDR can only use pdrVx.x.rom.