



The FBP400 is a highly versatile large screen Paging receiver in the format of a Mobile Data Terminal (MDT). It operates similarly to a standard pager or paging receiver, but with a much larger (130x90mm) graphical LCD display. Designed for in vehicle or desktop use, the FBP400 also provides up to 2 serial data output ports and a parallel printer port as well as up to 4 relays which may be controlled by Capcode or by text contained in messages.

The FBP400 is provided with a standard interface which receives, stores and displays up to 40 messages in standard memory and a further 10 messages in locked memory. Messages may be displayed 4 or 8 line and a variety of display and alert settings are available including display on receipt etc.

Key Features

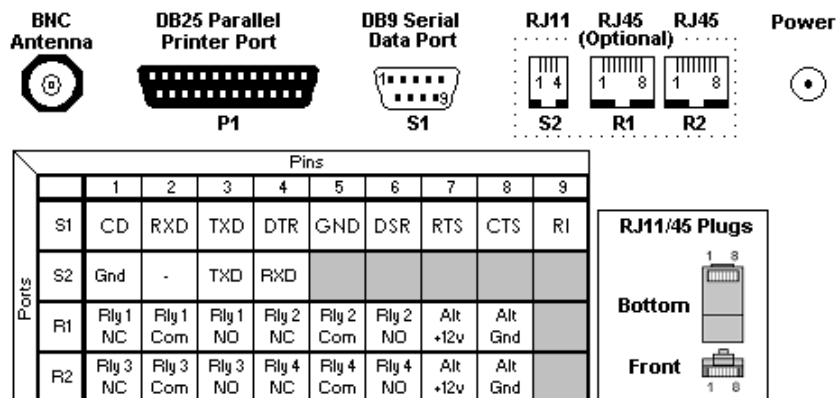
- Locked message memory (Up to 10)
- LED Backlight
- Delete-One and Delete-All functions
- Time and date display
- Time and date stamping of messages
- Print message function
- Large Capcode capacity
- On screen programming of functions POCSAG or Flex
- Simple user interface
- Vehicle or desktop mounting
- Molded plastic case
- Tilt mounting bracket

Power Requirements	9-15 volt DC operation
Input	Antenna with BNC connector
Outputs	<ul style="list-style-type: none"> ▪ Parallel printer output ▪ 1 x RS232 serial data input/output (2 opt) ▪ Control outputs -2 x relays (optional)
LCD Dimensions	130 x 40 mm (Approx 5 x 1½ in.)
Overall Dimensions	228 x 78 x 42mm (excluding bracket)
Message Capacity	40 message memory

FBP400 Connections

Connecting the Paging Data Terminal:

The FBP400 has four standard connectors on its back face plate plus, if fitted, an additional three optional connectors.



Standard Connectors:

- 25 pin DB25 (P1) - Standard centronics parallel printer output.
- 9 pin DB9 (S1) - Standard RS232 serial port for programming and data I/O
- BNC connector is for connecting the external antenna.
- DC Socket - Power in (9-32v AC or DC (recommended 12v DC)).

Optional Connectors:




An RJ11 4 pin socket (S2) provides a second serial port for multi I/O requirements.

2 RJ45 8 pin sockets (R1 & R2) provide connection for up to 4 relays. Either port may also be used as an alternative means to connect power input.

Specifications

Receiver Type	Synthesized FSK FM receiver
Freq. Bands Available	135-174, 408-412,450-470, 929-932 MHz (5MHz splits), 25kHz band width
Sensitivity	Typically better than -118 dBm into 50 ohms
Decoding Format	POCSAG or Flex™
No. Capcodes/Addresses	Varies according to format selected and other functions
LCD Display Format	Multiple address slots Sunlight readable, Blue/White Graphical 240x64, LED backlight
Operating Temp	0-70degC
Display Area	127x 34mm (5"x1.5") 8 or 4 lines text
Antenna	External on BNC (SMA for 900MHz)
Power	10-32 VDC or AC
Consumption	Up to 500mA on start up, 100-250 continuous
Relays	Switch contact ratings 0.5A @125VAC, 1A @24VDC resistive load
Approvals	FCC CFR 47 Part 15, C-Tick
Physical	227x75x42mm (~9x3x1.5") excluding bracket and antenna connector

Receiving & Reading Messages

1. On receipt of a message the FBP400 will beep and an unopened envelope  will appear at the top of the LCD display. Press the green Acknowledge key (A) to display the message and the down key to scroll if the message is longer than one screen. You may use the left and right keys to scroll between different messages.
2. Once the message has been read the symbol will change to an opened envelope .
3. The FBP400 will hold up to 40 messages in its standard message stack and up to 10 locked messages. Locked messages appear at the bottom left of the display thus .
4. To return to the main screen press the red Mode (M) key once.











Control Functions

1. To activate the control functions, press the red Mode (**M**) key once.
2. The following symbols will appear:



3. As the cursor is moved across the symbols a text description will appear below them.

Symbol	Function	Action
	Exit	Return to main screen
	Delete Message	Delete the 1 message under which the message cursor is placed.
	Delete All Read Messages	Delete all messages that have been read (Ā).
	Delete All Messages	Delete all messages except locked messages.
	Lock Message	Place the selected messages in the Locked Messages section. Note the same symbol is used to unlock locked messages
	Display Functions	Adjust LCD Contrast and Backlight Brightness. Use Up/Down to select and Left/Right keys to adjust
	Print Message	Print the selected message. Note the same may be achieved by pressing the blue Print (P) key
	System Setup	Set various display, message, alerting and date/time functions.

System Setup

Press the red Mode (M) key and move the cursor to the System Setup selection. Press M again and use Up/Down keys to select menu are. Press the Right key to select the Options Menu. The Left and Right keys are used to change the selection. The A key will return you to the previous screen and the M key will return you to the main screen.



Display Options

<i>Function</i>	<i>Description</i>	<i>Settings</i>
Backlight Time	Set how long backlight is to remain on after a key press or message received (see next option)	5s/10s/30s/1m/5m/Permanent
Backlight on Msg	Turns the backlight on when a message is received.	Y or N
Display Instantly	Display message automatically when it is received	Y or N
Display For	Sets how long the message will remain on display	5s/10s/30s/1m/5m/Perm
Display Font Size	Changes Text size & no. of lines of text on display	Small (8), Med (6), Lge (4)
Scroll	Scroll text in message 1 or 3 lines at a time	1 or 3
Show [Name]	Display the name assigned to the cap code/address	Y or N
Show Capcode	Display Capcode at the beginning of the message.	Y or N
Show [Number]	Display The number of the message 1-40	Y or N
Date Format	Display dates mm/dd/yy or dd/mm/yy	US or International
Time Format	12 or 24 hour	12 or 24
Delete All Read Msgs	Turns the Delete All Read Messages option on and off.	Y or N
Delete All	Turns the Delete All Messages option on and off	Y or N
Lockup Msg Option	Allows messages to be locked so they will not be deleted	Y or N
Set Time Option	Allows user to set time through Settings menu	Y or N
P Key to Delete All		Y or N
Display Maildrop	Instantly displays maildrop messages	Y or N
Max No. Messages	Sets the max no. of messages to display on FBP400	1-5 & 10-40 in steps of 5

Message/Alert Options

<i>Function</i>	<i>Description</i>	<i>Settings</i>
Audible Alert	Beeper sounds on receipt of message	On or Off
Beep Continuously	Beeper sounds continuously until any key is pressed	Y or N
Reminder Beep	Reminder beep sounds until message is read	On or Off
Initial Alert Time	Time beeper sounds on initial receipt of message	1s/5s/10s/30s/1m/ 5m
Warning Initial Time	Time beeper sounds on receipt of Warning type message*	
Watch Initial Time	Time beeper sounds on receipt of Watch type message*	
Reminder Interval	How often the reminder beep sounds	30s/1m/2m/3m/4m/5m
Reminder Period	How long reminder beep continues for	5m/10m/15m/30m/Forever
Combine Duplicate Msg	Identical messages displayed as separate messages	Y or N
Relay Lockout	Turns Relay lockout facility on or off	On or Off
Relay Lockout Period	Period during which Relays will not respond to identical commands on the same Capcode or message.	1s-5s/10-30s/1m-5m 10m-30m
Timestamp message	Place the date and time of receipt at end of message	Y or N
Warning/Watch	Special alert types set when Capcode is programmed	

