



PA*P*-20* Information Display Pager

Operating instructions

20-001

Be sure to observe the following:

- To prevent accidents from short-circuits. ensure that no metal objects come into contact with the battery terminals.
- Keep the pager away from fire.
- Do not expose the battery to direct sunlight.
- Keep the pager dry.
- Do not subject the pager to mechanical shock.
- Do not attempt to open the pager, or alter its software or hardware in any way.



The PA*P*-20* information display pager is a digitized radio receiver that displays and stores alphanumeric messages.

When a call comes in, the pager makes an alert and shows an alphanumeric message on the display.

Function buttons

- To turn on and off the power of the pager To confirm certain function settings
- To scroll backward through stored messages
 - · To select displayed functions.
- To scroll forward through stored messages To select displayed functions.

You can press any button to stop a call alert.

Message capacity

the state of the state of

The pager can hold up to 16 alphanumeric messages or 640 characters in its memory. message can be up to 120 characters long.

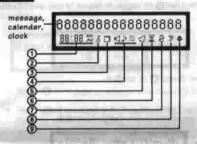
Addresses capacity

The pager has up to 3 main receiving addresses numbered 1 to 3

In addition, addresses 1 and 2 can have up to 4 sub-addresses each, A to D.

A total of up to 9 receiving addresses are available.

2. Standard features



1 message and (Example:) 18 address number 9:42 PM time stamp

1:08 AM alarm clock

(2) message protection indicator: 6

The sub-symbol & appears when you display a protected message.

message duplication indicator:

If a receive message already exists in the contents of the address, the old message will be overwritten and the sub-symbol will appear. The time stamp is also updated.

alert indicators:

✓ Beep 1, 2 Sound On: A Melody ♪ ≋ Chirp On Sound Off: Chirp Off(vibrator)

(5) alarm indicator:

You may set the pager to sound an alarm tone at a specified time. The sub-symbol □ appears when the mode is set to on.

⑥ countdown timer ∑

You can set the pager to make an alarm after a certain number of minutes or seconds have elapsed. The sub-symbol

appears when the mode is set to on.

(7) low battery indicator: 8

The sub-symbol & appears when the battery goes

(8) out of area indicator (option): ₹

The sub-symbol T is displayed constantly to show that your pager is inside the radio coverage area of the paging system. If the pager is outside the coverage area, F appears on the display.

message indicator: •

If a message is longer than one screen, this symbol appears on the right to let you know that the message length is more than one screen.

The * indicates message(s) on the previous screen. And the - indicates message(s) on the next screen.

3. Operation

Hold down @ for more than 1 second.

The pager will make a brief power on alert. The power on alert consists of the currently selected call alert.

The pager then goes to standby.

Power off

Hold down in standby mode.

Release when the pager emits a single beep; then quickly press again (within 2 seconds).

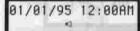
"Power 0FF" appears on the display for 2 seconds. (Or quickly press @ again to cancel power off.)



The pager then turns itself off.

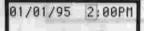
Setting the time

When the pager is switched on and in standby, the time and date are displayed. The default date and time are as follows:



To set the clock and calendar

- ⇒ Briefly press
 → then press
 → until "Set
 c l ock" appears on the display.
- Press O to start setting the time.
- Briefly press of to adjust the hour by one digit. Or hold down of to scroll rapidly.



Press to confirm and to move to the next setting.

Follow the same procedure above for setting the minutes, hour format, year, month and day.

Press (a) to confirm and return to standby

To adjust the calendar format

The pager can display the date in the "month/day/year" or "day/month/year" format.

- Briefly press ②, then press ③ until "Set
 Options" appears on the display.
- Press ②, and then press ② until "Calendar" appears on the display.

The current setting appears on the display.

Press . The prompt calendar format flashes.

Calendar : M/D/Y

- Press to toggle between "month/day/year" or "day/month/year".
- Press to confirm and stop the flashing. Then press to return to standby.

Selecting the call plent

The pager has two alert modes: Sound ON and Sound OFF.

To change the alert mode

The pager should be turned on and in standby.

Hold down @ for more than 1 second.

Either "Sound DN" or "Sound DFF" appears on the display.

Release @ when you hear a single beep.

After a few seconds the pager returns to standby with the last-displayed alert mode now active.

In this way, use **a** to repeat the process and to change the alert mode.

(To select an alert mode for Sound ON)

The pager should be turned on and in standby.

⇒ Briefly press
→ then press
→

Sound ON / OFF

Press O toggle between "0 N" or "0 FF".

When you select "Sound OH".

Press O

The "Beep1,2 / fle lody" appears on the display.



- or "fieledu"
- Press (a) to confirm and return to standby.

To select chirp on or off for Sound OFF

With the setting screen for Sound ON / OFF on the display—

Press O to select "Sound OFF", then O.

The "Chirp ON / OFF" appears on the display



- Press to toggle between "Chinp ON" or "Chinp OFF"
- Press (a) to confirm and return to standby.

4. Receiving a call

Call alert and display of new messages

When a call comes in, the pager generates the call alert you have selected and shows the message on the display.

Please call me

In the case of beep and melody alerts, the volume of the alert tone increases in four steps.

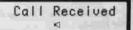
(Manual reset

If you press any function button during the call alert, the call alert stops.

The new message remains on the display for a further 40 seconds, after which the display returns to standby.

(Automatic reset)

If you do nothing, the call alert and message display stop automatically after a certain number of seconds. The words "Call Received" remain on the display.



Displaying unread message(s)

Briefly press any function button while the words "Call Received" are displayed.

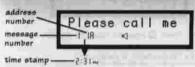
The new message(s) will reappear with the selected alert on the display.

5. Reviewing stored messages

To review the latest message (message #1)

Briefly press Q.

Message #1 appears on the display.



After a few seconds, the message number and address number are then replaced by the time stamp (the time at which message #1 was received). If you do nothing, the pager returns to standby after 40 seconds.

To scroll through the stored messages

Briefly press O to review message #2.

All the messages will appear if you continuously press . But only the first screen of each message will appear if you continuously press . (backward scrolling). With the oldest message on the display, quickly press . to return to standby.

Automatic scrolling

During review of stored messages, hold down of to scroll through the messages at a rate of 1, 2 or 3 seconds per message screen. See item "Automating scrolling speed".

(Automatic scrolling speed)

You can specify the display time for each message: Fast (1 second), Medium (2 seconds), Slow (3 seconds).

- Press

 then press

 until "Set Options" eppears.
- Press ♠, then press ♠ until "Scrol!!"
 appears.

The current setting appears on the display.

er Press O

The current scroll speed flashes on the display.



- Press o to toggle between the "Fast", "fled ium" or "Slow".
- Press O to confirm the setting and stop the

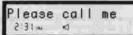
flashing. Then press 6 to return to standby.

6. Protecting a message

If the memory of the pager is full, the oldest unprotected message is automatically deleted on the reception of a new message.

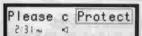
To protect a message

 Press or or to enter message review mode and display the required message.



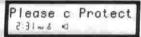
Press (0)

The "Protect" flashes in place of the last 8 characters of the message.



- Press to stop flashing and enter protect mode.
- Press again to execute protection of the message.

After **O** is pressed, the protect symbol o is displayed with the message.



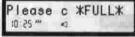
Press @ again to return to standby.

To "unprotect" a message

- Press O or O to display the protect message.
- Briefly press . then press twice to unprotect the message. The sub-symbol of disappears on the display.
- Press to return to standby

Message protection capacity

Up to 8 messages, or 256 characters, may be protected. If you attempt to protect a ninth message, or to protect a total of more than 256 characters, the pager displays the warning *FULL* and sounds a brief tone.

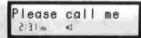


This screen appears for 1 second, after which the display returns to the protect mode display automatically.

Press (1) to return to standby.

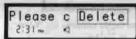
7. Deleting a message

 Press or to enter message review mode and display the required message.



With the required message on the display-

- Press @
- Press o to toggle between "Protect" and "Delete".



Press o to stop flashing and enter delete mode.

Press O.

The display shows "Belete?"

Please c Delete? ₹:31m <

Press O to execute deletion of the message.

After the is pressed, the "Beleted" appears on the display.

This screen appears for 1 second, after which the pager goes to the delete mode display for the next message automatically. Press (to return to standby.

To delete all stored messages

The pager has memory back-up for messages. All stored messages will be retained during power off while a valid battery is installed in the pager.

In this case, you can delete all messages, protected or unprotected, stored in the pager.

The power of the pager should be turned off.

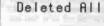
Hold down O.

While holding down O:

Hold down @ for more than 1 second.

The pager displays the "Delete RII ?".
Release () and ()

Press to confirm deletion of all stored messages. (Or press to cancel the deletion.)

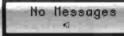


"Deleted RII" will appear on the display. The pager will make a brief power on alert.

B. No messages stored

During standby, with no messages stored-

Press O or O. Then the message below will appear



Press any button to return to standby

Selecting the duration of the call alert for Sound On

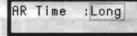
- Briefly press
 and then press
 until "Set

 unti
- Press O

The current setting of the alert duration appears.

Press to change the setting

The current setting starts flashing.



Fress

to toggle between "Short",
"Hiddle" or "Long".

Short : 20 seconds Middle: 32 seconds Long : 44 seconds

Press O to confirm.

The setting stops flashing.

Press (a) to return to standby.

A Sound Off alert always lasts for only 8 seconds.

10. Reminder alert on-off

If any message is "unread", the pager repeats the call alert 1 minute, 2 minutes, 5 minutes, 10 minutes and 30 minutes after the message was received. Press any button to stop the reminder alert and display the unread message.

To set the reminder alert on or off

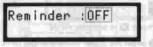
- Press ♠, then press ♠ until "Set Options" appears.
- → Briefly press ♠, then press ♠ until

 "Reminder" appears.

The current setting of the reminder alert appears on the display.

Press O

The current setting of the reminder alert flashes on the display.



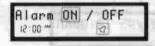
- Press
 to toggle between "0FF" and "0N"
- Press of to confirm the setting and stop the flashing. Then press to return to standby.

11. Alarm clock

You can preset a daily alarm in the pager.

- Press (and then press (antil "Set A I arm" appears.
- Press O.

The current setting appears on the display.

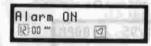


- Press ■ to toggle between "0 N" and "0 F F"
- Press O to confirm the setting

If the confirmed setting is "0 F F", the pager returns to standby automatically.

If the confirmed setting is "0 H", the following is displayed.

with Printing on \$20 increases



- Press O to adjust the hour and minute. See item "Setting the time."
- Press (to confirm the alarm time.

The pager returns to standby. The Q remains on

the standby display while the alarm clock function is active

When the alarm time reaches the setting time, the pager sounds the specified tone alert and

"XRI or mX" appears on the display-



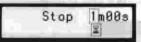
Press any button to stop the elert. Then press any button to return to standby.

12. Countdown timer

- Briefly press

 then press
 until "Set

 I men" appears on the display.
- Press O to enter the function.

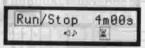


- Press O to adjust the minute setting.
- Press O to confirm the minute setting.

Select "Run" to start the countdown process,

Select "St op" to cease and retain the countdown time. Then select again to reset to the original countdown setting.

■ Use O to toggle between "Run" and "Stop".



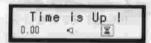
Press O to confirm.

If you select "Run", the display will start the countdown in minutes and seconds.



And so on. Press • to select "St op", then • to stop the countdown.

Otherwise, when the minutes and seconds reach zero, the pager makes the currently selected call alert for the specified call alert period and "I i me is Up i " appears on the display—



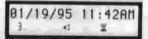
Press any button to stop the alert. Then press any button to return to standby.

Countdown alert in standby

With the countdown in progress-

Press (to return to standby.

The countdown time appears on the lower left of the display.



If the countdown time is more than 1 minute, only the minutes are displayed, else only the seconds are displayed. When the time is up,

Press any button to stop the alert. Then press any button to return to standby.

13. Installing and replacing the battery

The pager operates on a standard 1.5 V "AAA" battery. No battery is installed when the user first receives the pager.

The cover for the battery compartment is located on the rear side of the pager.

(To install the battery

Slide the cover away from the battery compartment.



Insert the battery into the battery compartment, ensuring that the polarity of the battery is correct.



Slide the battery cover back into place.



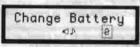
Remove the battery cover. Remove the battery from the compartment by the + end.

Install a new battery as soon as possible to maintain the contents of the memory of the pager.

Low battery alarr

If the battery drops below a workable level, the pager will sound a low battery alarm.

The message "Change Battery" appears on the display along with the symbol 8.



Press any key to stop the alert tone.

Turn off the power of the pager and replace the battery as soon as possible.

Remember

To protect the data you have stored in the pager, do not leave the pager without a valid battery for more than a few minutes.

Alpha entry from touch tone telephone

It is possible to send alphanumeric messages to the pager using the digit keys on the keypad of a landline or mobile phone.

The caller should dial the number of the paging service, then follow the directions given in the recorded announcement. To enter a particular message character, the caller has to press a combination of two digit keys.

In the table below, the double digits stand for digit entries on the keypad of the phone. The hold characters stand for the resulting message characters.

00	0	21	Я	61	н	91	ш
10	1	22	8	62	N	92	×
20	2	23	c	63	0	93	Y
30	3	31	D	71	P	13	2
40	4	32	E	- 11	0	12	(SPACE)
50	5	33	F	72	R	24	
60	6	41	G	73	S	25	(
70	7	42	Н	81	T	26)
80	8	43		82	U		in the second
90	9	51	J	83	U		
		52	K				
		53	L			0.1	