

Memory Mic-Key

HA1NBS Design

V1.0

Greeting text:

	M	e	m	o	r	y		M	i	c	-	K	e	y	
	H	A	1	N	B	S		D	e	s	i	g	n		

	B	a	t	t	e	r	y					9	V		
						O	K								

Battery voltage watching. Above 7V displays: OK

If the voltage is less than 7V, displays: Not OK, and the whole text flashes. The menu doesn't go on.

	B	a	t	t	e	r	y			6	.	9	V		
					N	O	T		O	K	!				

In case of main powering, the equipment switches off the battery feedinga, and displays:

			D	C	-	a	d	a	p	t	e	r			
			C	o	n	n	e	c	t	e	d				

Warning! The equipment doesn't charges the battery, at the connection of the power supply unit the battery will be switched off, and the equipment will run on PSU.

The Menu System

The main menu

		S	e	l	e	c	t			M	o	d	e		
T	e	s	t			C	w					F	o	n	e

In the main menu it is possible to choose between the contest (test) telegraph (cw) and phone (phone) modes.

By hitting the key the equipment will change to cw-mode, by pressing the PTT to fone-mode.

CW-mode:

- In the menus by **holding the „NEXT” button** (app. 1s), enters to the main menu. This way it is possible to escape from any chosen mode, and choose another one.

2. Menu

		S	p	e	e	d			1	2	W	P	M		
N	e	x	t			D	o	w	n				U	p	

It allows to change the speed to press the buttons. Holding the button changes the speed continously. The speed can be set between 10-40 wpm

3. Menu

					T	u	n	i	n	g					
N	e	x	t						>	<					

In this menu the radio will be switched on air by pressing any key, until it's return.

In the bottom line "><" signs show the tuning.

4. Menu

S	e	l	e	c	t		k	e	y	:	N	o	r	m	
N	e	x	t		N	o	r	m		S	p	e	e	d	

This menu is for choosing the mechanical system of the key.

"Normal" means the traditional single-armed key. In this set only the traditional key works correctly, if double-armed (speed)key is connected, that will switch only on one side. „Speed” means the speedkey

This menu appears only if the "speed" is chosen in the 4. menu:

Here you can choose the side of the dash/dot. (according to your taste).

S	p	e	e	d	-	k	e	y	:	N	o	r	m	a	l
N	e	x	t		N	o	r	m		R	e	v	e	r	s

5. Menu

					T	o	n	e	:	O	n				
N	e	X	t			O	f	f					O	n	

You can switch on/off the side-tone.

If the tone is "on", on the display appears:

	T	o	n	e		F	r	e	q	:	6	0	0	H	z
N	e	x	t			D	o	w	n				U	p	

The side-tone is adjustable between 400-1200 Hz, in 50 Hz steps. You can hear the change under the adjusting. If you don't use the side tone, this part doesn't appear.

6. Menu

Dash-dot ratio change

S	e	l	e	c	t		R	a	t	i	o	:	1	:	3
N	e	x	t			D	o	w	n				U	p	

You can change the ratio between 1:2-1:7 by setting the second number.

7. Menu

Transmitter delay

	T	X	-	D	e	l	a	y	:	1	0	0	m	s	
N	e	x	t			D	o	w	n				U	p	

By pressing the key the PTT output turns active immediately, but the cw output is delayed. This can be used to control other stages, eg. power amplifier. The basic delay time is 100 ms, you can change below until 50 ms, or above to 1 s. Between 50 to 200 ms in 50 ms steps, above 200 ms in 200 ms steps.

8. Menu

Continuous memory play (eg. bacon-mode)

	M	e	m	o	r	y		L	o	o	p	:	O	f	f
N	e	x	t			O	f	f					O	n	

Basic set is off. If turned on, the next button will show the next menu:

	L	o	o	p			D	e	l	a	y	:	4	s	
N	e	x	t				D	o	w	n			U	p	

You can set the break between the repeating between 1-9 s, in 1 s steps

Eg.: If you set 4 s, the content of the memory will be played, then 4 s break, then plays again and so on, until you hit the morse-key. You can set the time backward stepping on the display.

It is possible to set different time than in fone mode

9. Menu

CW-Decoder menu

	C	W		D	e	c	o	d	e	r	:	O	F	F	
N	e	x	t				O	f	f			O	n		

There is a built-in microphone in the equipment, which can hear the morse signs around 600 Hz. and decodes them, if the ratio is accurate enough (1:3 dash/dot).

The decoded text appears in the bottom line. The success of the decoding depends on much (accurateness, signal strength, noise, etc...)

10. Menu

	S	e	t		V	o	l	u	m	e	:		4		
N	e	x	t				D	o	w	n			U	p	

You can set the side tone between 1-8. During the setting a voice sounds. It is possible to set different settings than in fone mode.

In the menus by **holding the „NEXT” button**, you can escape from the cw-mode.

Using the memory-keys

The equipment contents 6 separated memory.

If you press any memory key for app. 2 s, enters to the record menu, and tastes the "K" letter.

	R	e	c	o	r	d		M	e	m	o	r	y		1
S	a	v	e												

At the beginning of the input the "save" word disappears, and the character for save appears. If the input stops, about 1 s later it changes back to "save".

The record starts only at the very first hit of the morse-key!!!

The memory writing goes by the key, and in the bottom line the text appears. To delete a character type at least six dots (like the "fault").

If you finished to record, you can store by pressing the save button, and escapes from the recorder function. Then the "R" will be sound (to confirm: Roger), and prints:

	S	a	v	i	n	g		M	e	m	o	r	y		1
							D	o	n	e					

These above refers to all memory keys.

Basically the contents:

1: MEMORY1

2: MEMORY2

3: MEMORY3

4: MEMORY4

5: MEMORY5

6: MEMORY6

Test-Mode (contest mode):

This menu refers to the cw-contests. The 6 different memories are available, but as 6 new memories. So these memories you can program especially for the contest mode. (eg.: QTH only, QRA-locator, Name, etc.)

1.Menu

In the first step you can set the order number:

S	e	t		S	t	a	r	t	N	R	:	0	0	0	1
N	e	x	t			D	o	w	n			U	p		

Basic set is the 0001, but with the function key you can set for any between 0001-9999. By holding the up or down keys, you can set faster. The memory key will set the order number, so this will remain after the switch off.

2.Menu

A	u	t	o		M	e	m	o	r	y	:	O	f	f	
N	e	x	t			O	f	f				O	n		

In the second menu you can set, if you want the memory key to type a memory's content automatically followed an order number.

Basic set is off.

If you leave off, the typed content will be the 5NN order number.

If you turn on this function, you can choose, which memory's content will be played after the order number.

(eg: 5NN 023memory-1), so the report order number, and the content of a memory (eg. Salkoveskut) which is my qth ☺

A	u	t	o	-	P	l	a	y	:	M	e	m		1	
N	e	x	t			D	o	w	n			U	p		

3.Menu

You can use abbreviations, it is possible to turn on or off every each abbreviations:

S	h	o	r	t		'	0	'	:				O	F	F
N	e	x	t			O	f	f					O	N	

- If the order number contains "0" it types the letter "T" .

S	h	o	r	t		'	1	'	:				O	F	F
N	e	x	t			O	f	f					O	N	

- If the order number contains "1" it types the letter "A" .

S	h	o	r	t		'	9	'	:				O	F	F
N	e	x	t			O	f	f					O	N	

- If the order number contains "9" it types the letter "N" .

Press Next, then it will escape from the settings, and jumps to the menu 4. Now you can start te contest.

4.Menu

	R	e	p	o	r	t		N	R	:	0	0	0	1	
N	e	x	t		A	g	a	i	n			S	e	n	d

- If you press the "send" button, the equipment will send the report in the shape below:

- If the memory is not set: 5NN- order number (which is just seen)
- If the memory is set: 5NN - order number () - memory's set contain

You can record any text into the memory, and here that will be played, depending on the settings.

- By pressing the "again " button the equipment will type again the last typed order number.(eg. the station didn't understand)

You can record any text into the memory, and here you can play them by pressing the certain button.

Formats:

The order number can have 4 digits maximum. If the first 0, the equipment doesn't type that, only the rest 3 digits.

After the 9999 number it changes to 001. (Not 000, because that doesn't exist)

If you need a newer set, you can step over the settings by pressing the "next" button.

Using the memory-keys

The equipment has 6 other memories, which are separated from the cw mode

The process of the writing of these memories is the same written about the cw-mode.

In the menus by **holding the „NEXT” button**, you can escape from the cw-mode.

Fone-mode:

If you choose this mode, on the display appears:

1.Menu

	S	e	t		V	o	l	u	m	e	:		4		
N	e	x	t			D	o	w	n				U	p	

You can adjust the volume of the side tone between 1-8. During the setting voice sounds.
It is possible to set different settings, than in cw mode.

2.Menu

Playing the memory continously (beacon mode)

M	e	m	o	r	y		L	o	o	p	:		O	f	f
N	e	x	t			O	f	f					O	n	

Basic setting is off.

If somebody switches on this function, the following menu appears:

	L	o	o	p			D	e	l	a	y	:	4	s	
N	e	x	t			D	o	w	n				U	p	

You can set the break between the repeatings , from 1 to 9 s, in 1 s steps.

Eg. If you set 4 s, it will play the memory, then 4 s break and plays again, until you press the PTT.

You can see the delay time counting down on the display.

It is possible to set different time than in the cw-mode.

3.Menu

To turn on and off the Beep-tone

	R	o	g	e	r		B	e	e	p	:		O	f	f
N	e	x	t			O	f	f					O	n	

If the beep tone is on, it will send the "R" letter on the AUX output at every releasing of the PTT!

Using the memory buttons

The equipment has 6 separated fone memory

If you press and hold the memory key (app. 2 s), it will turn to record, and types the letter "K".

	R	e	c	o	r	d		M	e	m	o	r	y		1
		W	a	i	t		f	o	r		P	T	T		

If you press the ptt, the recording will start, when you release, stops. Then you can hear an "R", and displays:

	S	a	v	i	n	g		M	e	m	o	r	y		1
						D	o	n	e						

This refers to each memory keys.

If you press any memory key (shortly), it will play the text refers to the certain key.

You can intermittent the playing by pressing the ptt one time.

If you **press the „next” button**, you can escape from the fone-mode.

The equipment is under developing, for more information: ha1nbs@freestart.hu

I don` t take any responsibility for anything refers to the equipment, and any other equipments connected to this (eg. transceiver, key, power amplifier, etc)