TextSpeak™

Model TS-04 - W

Wireless Speech Keyboard System 2.0

Users' Guide

TextSpeakDesign

Speech Generating Products

Overview

TextSpeak™ TS-04 text-to-speech speaker and wireless keyboard system instantly converts typed text to a natural sounding voice. The easy-to-use speaker/keyboard combination works right out of the box without setup, and speaks with an unlimited vocabulary.

- Easy to use AAC Augmentative Communication Device
- Just type to talk, use any speakerphone to talk over a phone line
- Nothing to learn, ready to work when you open the box!
- Programmable phrase storage using integrated *FLASH* memory
- Operates on AC wall adaptor or batteries
- Uses exclusive Digital Acoustics® technology

TS-04 SPEAKER
CONTROLS AND CONNECTIONS

External Keyboard Connector (Model TS-04K)

Low Battery Indicator

On Off Indicator

Power Connector (9 volt DC)

Hi/Lo Volume Select

On/Off Switch

LED Status Display

- On continuously   Active/Normal – waiting to Speak
- Flashing quickly   Synthesizing Speech
- Flashing slowly   Function key phrase recording in progress
- Flashing very slowly   Battery "standby" operation

Power Modes and Battery Operation

AC Adapter Operation

A 9-volt AC power adaptor is supplied with the TS-04. AC powering permits you to leave the TS-04 on all the time and be ready to use instantly when you type on the keyboard.

The wireless keyboard has a 10-foot range to enable portable typing across a room.

Portable/Battery Operation

Battery operation is enabled automatically if the AC power is not used or detected.

Press the **ON/OFF** button to control power in AC or battery modes

Smart powering modes: (Battery operation only)

Smart power management prolongs battery life and may provide weeks of usage before requiring a new battery in the speaker

- **Standby** - When the keyboard is not used to generate speech for **Power** 3 minutes the TS-04 will enter Sleep Mode.

- **Resume - Power** Press the space bar 2-4 times in quick succession to 'wake up the TS-04 from sleep mode.

- **Auto Off -** After 10 minutes of inactivity the TS-04 will automatically turn off to conserve battery power. Pressing the "END" key will also turn the power off and may be used at any time.

NOTE: The TS-04 <u>keyboard</u> has automatic ON/OFF powering and extremely long battery life. Normal use requires battery replacement of 2 AAA batteries only once every 6-12 months. Refer to Appendix A to learn more about keyboard battery replacement.

Low Battery Indication:

When the low battery indicator is flashing change the 9 Volts Battery in the TS-04 or use external AC power.

TextSpeak TS-04 system includes 2 components, the speech generating speaker and a wireless keyboard. For normal operation, simply press the Power ON/OFF switch, type on the keyboard, press ENTER , and you're ready to start talking!

TS-04 Speaker   TS-04 Keyboard

Step 1:

Connect AC Power or install a 9-volt battery

Step 2:

Press the white **On/Off** button on TS-04 Speaker for powering

Step 3:

Type on the keyboard **H e l l o** and **press Enter** to 'speak' your first word! Type other words or phrases, press Enter again, and you'll be typing and talking!

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Typing To Talk

To start using the TS-04 press the speaker Power ON/OFF switch, wait until the blue Active indicator is ON, and begin typing to talk. There is no ON/OFF switch for the keyboard. It powers on instantly every time you begin typing and powers off automatically.

To talk, type a word or phrase, then press the enter key.

If you make a mistake typing just press the backspace key to delete the last key-press entry (or words) while typing.

> *In normal operation TextSpeak waits to speak until after the **ENTER** key is pressed!*

Advanced features such as auto-repeat, saving phrases, continuous speech generation and speaking over telephones are described below.

Using Function Keys to Say Phrases

Function keys can be used to store commonly used phrases. After programming, pressing any function key will speak the pre-programmed phrases.

A total of 32 phrases are available. F1 and F2 pre-allocated to special factory stored phrases. 30 other phrases are programmable.

F1 is pre-programmed to speak
> *"Hello, I cannot speak and will be using a speech synthesizer"*

`F1`

F2 is pre-programmed to speak
> *"Please be patient while I type responses"*

`F2`

F3 to F12 are User Programmable

`F3` ➜ `F12`

Function key phrases are recorded and saved to memory after the TS-04 is powered off.

"Alt" and "Control" key combinations may be used to store 20 additional phrases. Hold down (or press and release) the ALT or CTRL key, *then* press the desired Function Key (F3 to F12) to program recorded phrases.

`Alt` ➜ `F6`

`Ctrl` ➜ `F9`

Record a Keyboard

Step 1

> <u>*Press*</u>   Press the **accent/tilde** key
>
> <u>*Listen*</u>   Listen for the reply **"Press F Key"**

Step 2

> <u>*Select*</u> Press the desired key by pressing F3 to F12
>
> <u>*Wait*</u>   Wait for the confirmation of the key number to be spoken
>
> Note: 10 phrases may be stored using F3 to F12. 20 additional phrases may be used by adding the ALT and CTRL key with keys F3 to F12. To program these press the Alt or CTRL key *before* the each function key.

Step 3

> <u>*Type Text*</u>   Type the text or phrase wish to record
>
> <u>*Press* ENTER</u>   Press the 'Enter' key to stop recording
>
> <u>*Listen*</u>   Listen for the audio reply "**O.K.**", *indicating success*

Step 4

> <u>*Verify*</u>   Press **the function key to verify the phrase**

- The ESC (Escape) key may be used to cancel a phrase recording sequence
- Saved phrases pressed sequentially will be spoken in order *and combined*.
- Phrases are saved in memory when power is removed.

SAMPLE PHRASES

F3	*My name is John Russell, I live at 2, Main Street*
F7	*Please contact by brother at 203-820-1234*
CTRL+ F3	*Tomorrow*
ALT+ F3	*I am OK, thanks*
ALT+ F4	*I would like to eat*
ALT+ F5	*I would like to call home*

You can use TextSpeak TS-04 to speak directly into a telephone using any
standard speakerphone.

Simply place the TS-04 speaker near the phone and the distant
caller will hear your typed phrases *loud and clear*.

Adjusting Volume and Speech Generation Speed

+ / - The Hi and Lo Switch on the TS-04 controls 2 levels of volume. If more
adjustment is required press the keyboard Arrow Up and Arrow Down
keys multiple times.

Talking Speed (time between each word) is adjustable in 4 steps. To slow down
talking speed, press the Left Arrow multiple times. To speed up speech, press the
Right Arrow multiple times. If you wish to save the settings as a power up default,
refer to Appendix A.

Special Key control commands

Enter	**Enter**	Press to speak a typed phrase (default mode)
Pg Up	**Page Up**	Sentence Mode (speak when *Enter* is pressed)
Pg Dn	**Page Down**	Spelling Mode (speak every letter typed)
~ '	**Program**	(refer to "Storing Phrases' in previous section)
Esc	**'Escape'**	Cancel current action
/	**'Slash'**	Repeat last phrase
End	**End**	Power ff command
↓	**Arrow Down**	Volume Down
↑	**Arrow Up**	Volume Up
←	**Arrow Left**	Slow down speech playback
→	**Arrow Right**	Speed up speech playback

FUNCTION KEY WORKSHEET

F1	*Hello, I cannot speak and will be using a*
F2	*Please be patient while I type responses*
F3	Available for saved phrases
F4	Available for saved phrases
F5	**Available for saved phrases**
F6	Available for saved phrases
F7	Available for saved phrases
F8	Available for saved phrases
F9	Available for saved phrases
F10	Available for saved phrases
F11	Available for saved phrases
F12	Available for saved phrases

"ALT" KEY + FUNCTION KEY COMBINATIONS

ALT F3	Available for saved phrases
ALT F4	Available for saved phrases
ALT F5	Available for saved phrases
ALT F6	Available for saved phrases
ALT F7	Available for saved phrases
ALT F8	Available for saved phrases
ALT F9	Available for saved phrases
ALT F10	Available for saved phrases
ALT F11	Available for saved phrases
ALT F12	Available for saved phrases

"CTRL" KEY + FUNCTION KEY COMBINATIONS

CTRL F3	Available for saved phrases
CTRL F4	Available for saved phrases
CTRL F5	Available for saved phrases
CTRL F6	Available for saved phrases
CTRL F7	Available for saved phrases
CTRL F8	Available for saved phrases
CTRL F9	Available for saved phrases
CTRL F10	Available for saved phrases
CTRL F11	Available for saved phrases
CTRL F12	Available for saved phrases

Appendix A   Changing voice, language and settings

The TS-04 is capable of supporting 2 voice styles as well as English and Spanish languages. Selecting these may be made by entering a special "Setup Mode"

Pressing the 'CTRL' and "S" key enables "Setup Mode"   `CTRL` ➝ `S`

`E`   **Press "E**" to alternate language between English and Spanish.
       (For Spanish, the "**ñ**" key is mapped at the English "**;**" key)

`V`   **Press "V"** to alternate voices between Female and Male.

`F`   **Press "F"** to restore all original factory volume and voice settings.

`S`   **Press "S**" to save settings. This stores the current voice and language setting in memory. The current selection of volume and speech rate will also be saved and used as the new power up default setting.

Appendix B   Replacing Keyboard Batteries

ℹ️   ***When keyboard batteries are replaced wireless links must be restored for speech to be generated***

Keyboard batteries should normally be replaced every year. However, when batteries are removed a special CONNECT process MUST be used to reactivate the keyboard link to the TS-04. ***This process is ONLY needed for <u>KEYBOARD</u> batteries. The TS-04 9v main battery does not require this process.***

Step 1   Locate the 2 AAA keyboard batteries

Locate position of "CONNECT" button

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Step 2   Depress **BOTH** ON/OFF *and* SPEAKER buttons **simultaneously** <u>for 2 seconds</u>

Wait for Speech Audio phrase
"Press Keyboard Connect Now"

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Step 3   Press the red CONNECT button on the underside of the keyboard.
(Location is next to the battery compartment)