WKtest Utility Help File



Wktest Testbed Software Wktest first time startup Wktest Dialog Box Controls

Wktest first time startup

Connect the WK PC board to an RS232 (com1, com2...etc) and then pull down Comm item from the menu bar. Select the com port winkey is connected to. Next we need to open the communications interface to WinKey, do this by clicking in the OpenWK pushbutton. The app will look for WinKey and then will calibrate the interface, init Winkey, and open Winkey for operation. The result of the operation will be shown in a message just under the OpenWK pushbutton group.

Open error messages

WK Fail:no echo Comm was opened successfully but winkey did not respond

WK Fail:echo mismatch Comm was opened sucessfully but winkey responded an invalid echo

WK Fail:no open response

Comm was opened sucessfully and winkey echoed but winkey did not respond to open

WK Fail:comm open

Comm open failed, could be an invalid com port setting

WK Fail:get comm state

Comm configuration failed

WK Fail:set comm state

Comm configuration failed

WK Already Open

Attempt was made to reopen winkey

WK Fail:unknown error

Unrecognized error response

Wktest Dialog Box Controls

Winkey Test Bed Users Guide

Configuration

The application needs to be configured for the serial port that WinKey will be connected to. Click on Comm on the menubar and select the desired comport. If you are using a USB to serial adapter you will need to install the adapter first, you can leave the port settings at their defaults, Wktest will set up the port properly during its init. If control over USB blocksize is provided, use the smallest transfer size available, this is usually 64 bytes. You will need to check which comport the USB serial adapter occupies as this will be entered in winkey's Comm selection. (it's usually com5 or com6)

Wktest Startup

When the Wktest app starts up, WinKey is effectively closed down. The first thing to do is click on the Open

button, this will intiate a connection to Winkey over the selected comport. Status of the connection is displayed just under the CloseWK and KeyerTest pushbuttons. There are two types of errors that can happen, communications and winkey connection errors. If you get a comunications error it is usually due to a misconfigured comport or the comport selected is already in used by another application. Winkey connection errors are rare, you would see them if you are bringing a WinKey board up for the first time. If you are using a serial cable make sure it is a one to one cable and not a null or crossover cable. In other words, pin 2 on one end needs to connect to pin 2 on the other end pin 3 to 3 ect. See the Winkey manual for more information on cable requirements.

Once WinKey starts up successfully it's software version will be displayed in the status version and it will be ready to accpet commands.

Start by moving the cursor to the keyboard entry window, click there and type characters into the window. You will see the busy status flag appear on the status window, after the character has been sent busy will disappear. If this works next try pressing the paddles (if connected to WK) and you will see both the busy and breakin status flags appear and then go away. (alternatively you can use the DIT and DAH bushbuttons) If you get this far, you are all set to go.

Wktest Menubar

Comm: Specify the com port winkey is conected to Debug: Various test selections, it's best to leave these alone Msg1: Enter or play Message one Msg2: Enter or play Message two Msg3: Enter or play Message three Msg4: Enter or play Message four Help: Help and About selections

Wktest Control Descriptions

Keyer Mode

lambic A : when both paddles are pressed a sequence of dot-dash-dot-dash..... is sent lambic B: just like lambic A except that when both paddles are released an extra opposite dot or dah is sent Ultimatic: the last paddle pressed will be the paddle in force Bug Keyer: This is used to simulate the old vibroplex mode or used for straight keying.

Wktest Customize

Various keying setups are located here. Enter a new value and press update to set the value in WinKey Weight: Value range 10 to 90, 50 is no weighting adjustment LeadIn: Sets lead in delay to allow time for antenna relay changeover. 0 to 250 in 10 mSec steps Tail: Sets tail delay to keep antenna relay set between letters. 0 to 250 in 10 mSec steps Farns: Set Farnsworth activation point in WPM Ratio: Modify dit to dah ratio. Range is 33 to 66. 50 selects 3:1 KComp: Key Compensation, 0 to 250 in 1 millisecond steps. 1stExt: First extension setting 0 to 250 in 1 millisecond steps. Ksamp: Set Paddle switchpoint range from 10 to 90, 50 is normal.

Wktest Status

Text strings show operational status of winkey as reported by the status byte: Xoff: Winkey's input serial buffer is full BrkIn: Paddles were pressed, serial input is cancelled Busy: Winkey has received input and is actively sending morse Tune: Winkey output is keyed Wait: Winkey is paused for a buffered timed delay

OpenWK

This pushbutton opens the interface to winkey, nothing works until you open winkey

CloseWK

This pushbutton closes the interface down

RandChar

This pushbutton starts a random character test where strings of random characters are sent to Winkey over the serial port.

KeyerTest

This pushbutton starts a random paddle test, nonsense is sent

Pin 5 Config

These radio buttons specify the function of the WK I.C. pin 5. Pin 5 can be PTT, sidetone, or alternate key output

Wktest DIT

This pushbutton when pressed will assert and hold the DIT paddle. It will stay asserted until DIT is pressed a second time.

Wktest DAH

This pushbutton when pressed will assert and hold the DAH paddle. It will stay asserted until DAH is pressed a second time.

Wktest WPM

This collection of controls are associated with speed control of Winkey.

WPM Edit Boxes

The upper edit box is used to specify the lower end of the speed range while the ower edit box specifies the upper end of the range. To use these controls, enter a value and then click on the slider button.

PotLock

This set locks winkey's speed to the speed pot. The slider has no effect except to follow the speed pot setting

WPM Slider

The slider is used to set the speed when PotLock is off

RunWild

This is an extreme speed change test that continually changes speed. It is only used to stress test the winkey interface

Outgoing Window

This window displays characters as they are echoed back from winkey

Keyboard Entry Window

Click in this window and start typing to send characters to winkey

ClearBuf

This pushbutton will clear any serial cahracters in queue.

Pause

This pushbutton will pause serial output until it is pressed a second time.

Tune

This pushbutton will assert the key output and hold it until Tune is pressed a second time. Tune has a built in watchdog that will automatically turn tune off after 100 seconds

Reset Defaults

This pushbutton will reset all of winkey's setting to power on defaults

Exit

This will exit the wktest application.

Message Editor Dialog Box

Simply enter a message in the edit box and press **Save** to store the message. **Restore** will cancel anything entered in the edit box and restore the original message.

Insert Buffered Command

This group of controls allow you to insert a buffered command into a message. There are seven different command options

SetPtt

This push button inserts a PTT assertion into the message at the cursor position. Ptt will stay assrted until CIrPtt is pressed

CIrPtt

This push button inserts a PTT deassertion into the message at the cursor position.

Merge Pushbutton

The two characters following a buffered merge will be combined into a single prosign character ex. AR

SetWpm

Enter a WPM value in the edit box to the left of this control and press this pushbutton to insert a buffered speed change at the cursor position.

SetKey

Enter a value in seconds in the edit box to the left of this control and press this pushbutton to insert a timed keydown delay at the cursor position.

SetWait

Enter a value in seconds in the edit box to the left of this control and press this pushbutton to insert a timed delay at the cursor position.