TSR-302

Handheld Touch Screen Remote

Supplemental Guide

Crestron Electronics, Inc.

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TSR-302: Handheld Touch Screen Remote

Access the Setup Screens

The main screen is the starting point for configuring the Crestron® TSR-302 Handheld Touch Screen Remote.

NOTE: If no project has been loaded or if an invalid project has been loaded, the TSR-302 defaults to a screen that allows access to the main screen.

The setup screens enable basic configuration prior to regular operation of the TSR-302.

If a project is running, the main screen can be accessed using one of two methods: via the first four buttons on the device or via Crestron Toolbox™ software.

Access the Setup Screens via the Device Buttons

Press (Power), (Home), MENU, and GUIDE on the TSR-302 in sequence twice (press , , MENU, GUIDE, , , MENU, GUIDE) within a 5-second period.

Access the Setup Screens via Crestron Toolbox

To access the main screen via Crestron Toolbox, perform the following procedure:

1. Establish communication with the TSR-302.
2. Right-click on the device, and select Functions > Setup Mode.
3. Select Enter Setup Mode. The main screen is displayed.

NOTE: Select Exit Setup Mode to exit the setup screen.

TSR-302 Main Screen

The main menu displays the current battery status, gateway (RF) signal strength, and Wi-Fi® signal strength, as well as RF Setup, Audio Setup, Display Setup, Timeouts, WiFi Setup, and Diagnostics buttons. In addition, there is a button that toggles on-screen messages on and off, a button that provides information about the TSR-302, and a Save & Exit button. The functions of each are detailed in the next section of this guide.

Configure the TSR-302

RF Setup

On the main screen, tap **RF Setup** to display the **RF Setup** screen.

RF Setup Screen

The **RF Setup** screen shows the RF signal strength and has controls for enabling or disabling roaming.

At the bottom of the **RF Setup** screen, select **2-Series** or **3-Series**, depending on whether a 2-Series or 3-Series® control system is being used.

Before a TSR-302 can be used with a Crestron control system, it must first be acquired by a Crestron Extended Range (ER) Wireless Gateway (sold separately).

Single Gateway Setup

When roaming is not enabled, i.e., a single gateway is used, there is a **Single Gateway Setup** button on the screen. Tap **Single Gateway Setup**.

To acquire a TSR-302, perform the following procedure:

1. Use a stylus or other thin-tipped object to press **ACQUIRE** on the gateway to enter Acquire mode. The accompanying LED illuminates, indicating the unit is ready to link with the touch screen. (The gateway can also be put into Acquire mode via Crestron Toolbox.)
2. Place the TSR-302 in Acquire mode by tapping **Acquire** on the **RF Setup** screen. The screen displays an “Acquire in progress” message, and the TSR-302 is automatically acquired by the gateway within 2 minutes.

RF Setup Screen (Acquire in Progress)

3. When the process is complete, the screen displays an "Acquire OK" message. Press ACQUIRE on the gateway to exit Acquire mode. The LED turns off.

RF Setup Screen (Acquire OK)

NOTE: Select an RF channel between 12 and 23 for maximum range. Channels 11 and 24 through 26 have less range but are available if RF interference requires moving the RF channel.

NOTE: The RF ID of the unit must match the RF ID specified in the SIMPL Windows program.

For details, refer to Best Practices for Installation and Setup of Crestron RF Products (Doc. 6689) at www.crestron.com/manuals.

Gateway Roaming Setup

When roaming is enabled, i.e., more than one gateway is used, there is a **Gateway Roaming Setup** button at the bottom of the screen.

RF Setup Screen (Gateway Roaming Enabled)

Tap **Gateway Roaming Setup** to display the **RF Roaming Setup** screen.

RF Roaming Setup Screen

Tap **RF Settings** to access the **RF Settings** screen.

RF Settings Screen

After making any desired settings, tap to return to the **RF Roaming Setup** screen.

Enable multiple gateways to acquire a TSR-302 by performing the following procedure:

NOTE: Only one gateway at a time can be in Acquire mode.

1. Use a stylus or other thin-tipped object to press **ACQUIRE** on one of the gateways to enter Acquire mode. The accompanying LED illuminates, indicating the unit is ready to link with the touch screen. (The gateway can also be put into Acquire mode via Crestron Toolbox.)
2. On the **RF Roaming Setup** screen, tap **Acquire Gateways** to display the **Roaming Setup** screen.

   Roaming Setup Screen

3. Select one of the gateways, and then tap **ACQUIRE START**.
4. When the process is complete, the screen displays an "Acquire OK" message.
5. Repeat steps 3 and 4 for any additional gateways to which the TSR-302 is to be acquired.
6. Press **ACQUIRE** on the gateway to exit Acquire mode. The LED turns off.

NOTE: Select an RF channel between 12 and 23 for maximum range. Channels 11 and 24 through 26 have less range but are available if RF interference requires moving the RF channel.

NOTE: The RF ID of the unit must match the RF ID specified in the SIMPL Windows program.

For details, refer to Best Practices for Installation and Setup of Crestron RF Products (Doc. 6689) at www.crestron.com/manuals.

To remove any gateways from the roaming setup, tap **Remove Gateways** on the **RF Roaming Setup** screen. Then select the gateway to be removed and tap **Remove GW**.

Roaming Setup Screen

On any of the setup screens, tap to go back to the previous screen.

Audio Setup

On the main screen, tap **Audio Setup** to display the **Audio Setup** screen.

Audio Setup Screen

The **Audio Setup** screen provides controls for muting (or unmuting) the audio, adjusting the **Master Volume** and the **Media Volume**, and playing a test audio file. The **Media Volume** controls adjust H.264 streaming media level in relation to the **Master Volume** controls. The **Beep Volume** controls adjust the level at which key click sounds (if enabled) will play when a button is pressed.

Tap to return to the main screen.

Display Setup

On the main menu, tap **Display Setup** to enter the **Display Setup** screen.

Display Setup Screen

The **Display Setup** screen provides brightness controls for **LCD Backlight** and **Key Backlight**, and **On** and **Off** controls for **Keys Wake LCD** and **Key Backlight**.

Tap to return to the main screen.

Timeouts

On the main screen, tap **Timeouts** to enter the **Standby Timeout** screen.

Standby Timeout Screen

The **Standby Timeout** screen provides controls to adjust the **Standby** timeout (from 0 to 120 seconds) and the **Power Down** timeout (from 0 to 240 seconds) for when the TSR-302 is undocked. There is also a **Standby** timeout control (from 0 to 120 seconds) for when the TSR-302 is docked.

Tap **Screen Saver Options** to display the **Screen Saver** screen.

Screen Saver Screen

This screen has **On** and **Off** controls for the screen saver and for displaying the time in a 24-hour format. In addition, there are **Screen Saver Brightness** controls.

Tap to return to the **Standby Timeout** screen.

Tap again to return to the main screen.

WiFi Setup

On the main menu, tap **WiFi Setup** and then tap **Add Access Point** to display the **Select Access Point** screen.

Select Access Point Screen

If the desired wireless access point is already in the list, tap **Connect**. Otherwise, perform the following procedure to add a new access point:

1. Tap **Add new** to display the **Confirm Info** screen.

   Confirm Info Screen

2. Tap the **WAP Name (SSID)** field and enter the name using the on-screen keyboard.
3. Tap the **Security** field to display the **Encryption** screen.

Encryption Screen

4. Select the appropriate type of encryption, and then tap to return to the Confirm Info screen.
5. Tap the Password field and enter the password using the on-screen keyboard.

   Access Point Password On-Screen Keyboard

6. Tap Save to save the password and return to the Confirm Info screen.

Confirm Info Screen (After Data Entry)

7. Tap **Make this my Access Point** to confirm the entries and display the **WAP Connect** screen.

WAP Connect Screen (While Connecting)

WAP Connect Screen (Connected)

8. Tap **Done** to accept the connection to the wireless access point and to display the **WiFi Setup** screen.

WiFi Setup Screen

9. Tap **IP Settings** to display the **WiFi IP Settings** screen.

WiFi IP Settings Screen (DHCP On)

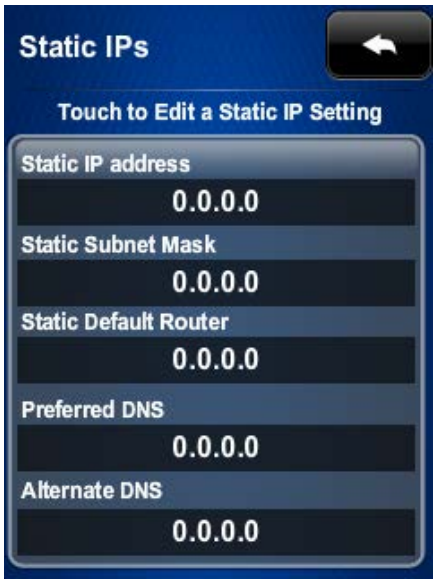
10. The TSR-302 ships with DHCP enabled by default. To use DHCP, tap repeatedly to return to the main screen.

    To enter static IP settings, tap **Off** under **DHCP Enabled**.

    WiFi IP Settings Screen (DHCP Off)

11. Tap **Set Static IP Address Settings** to display the **Static IPs** screen.

Static IPs Screen



12. Tap the Static IP address field to open an on-screen numeric keypad.

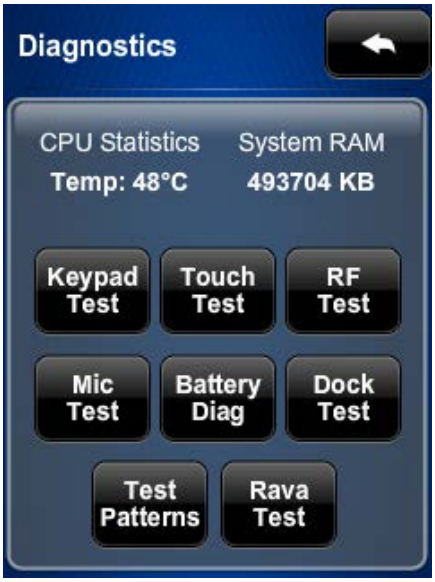
On-Screen Numeric Keypad

13. Enter the address and tap Save to return to the Static IPs screen.
14. Tap each of the rest of the fields in turn and enter their respective addresses, and then tap Save.
15. Tap to return to the WiFi IP Settings screen.
16. Tap Reboot Required to Apply IP Changes to apply the entries and reboot the TSR-302.

Diagnostics

On the main screen, tap **Diagnostics** to display the **Diagnostics** screen.

Diagnostics Screen



The **Diagnostics** screen displays the CPU temperature and the system RAM. It also contains controls to run a **Keypad Test**, **Touch Test**, **RF Test**, **Mic Test**, **Dock Test**, and **Rava Test**. In addition, there are controls to examine the battery condition and to open various test pattern screens.

In most cases, the diagnostics screens should be used only under the supervision of a Crestron customer service representative during telephone support. Many options available on the **Diagnostics** screens are numeric in nature, and their interpretations are beyond the scope of this manual.

Keypad Test

On the **Diagnostics** screen, tap **Keypad Test** to display the **Keypad Test** screen.

Keypad Test Screen

The **Keypad Test** screen contains 42 indicators that correspond to the 42 buttons on the TSR-302. The appropriate indicator lights to confirm operation of each pressed button.

Touch Test

On the **Diagnostics** screen, tap **Touch Test** to display the **Touch Test** screen.

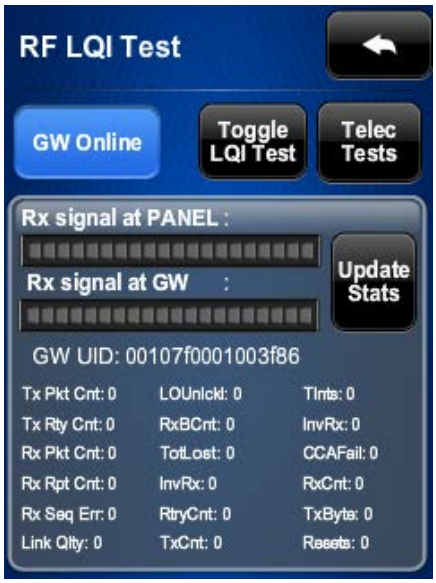
Touch Test Screen

The touch test screen contains indicators that light when the corresponding section of the touch screen on the device is tapped.

RF Test

On the **Diagnostics** screen, tap **RF Test** to display the **RF LQI Test** screen.

RF LQI Test Screen



The **RFI LQI Test** screen provides diagnostic information about the signals from the gateway.

Mic Test

On the **Diagnostics** screen, tap **Mic Test** to initiate a short recording via the built-in microphone.

MIc Test Screen

When the recording is complete, the TSR-302 plays it back.

Battery Diag

On the **Diagnostics** screen, tap **Battery Diag** to display the **Battery** screen.

Battery Screen

The **Battery** screen provides information about the battery condition and also has an indicator to show when external power is being applied.

Dock Test

On the **Diagnostics** screen, tap **Dock Test** to display the **Dock** screen.

Dock Screen

The **Dock** screen has an indicator to confirm that the TSR-302 is docked. The **On** and **Off** buttons enable or disable the dock alert message and the chime that sounds when the TSR-302 is docked.

Test Patterns

On the **Diagnostics** screen, tap **Test Patterns** to display the **Test Patterns** screen.

Test Patterns Screen

The **Test Patterns** screen provides access to various types of screens for display diagnostics.

Rava Test

On the **Diagnostics** screen, tap **Rava Test** to display the **Rava Setup** screen.

Rava Setup Screen

The **Rava Setup** screen provides controls for testing the use of Crestron's Rava® SIP Intercom with the TSR-302. Use this screen to configure the TSR-302 to make peer calls to

another Rava-enabled device. Alternately, in SIP Server mode, the TSR-302 can be configured to connect to a SIP server.

On any of the diagnostic screens, tap to return to the Diagnostics screen.

On the Diagnostics screen, tap to return to the main screen.

About

On the main screen, tap About to display the About screen.

About Screen

The About screen displays information about the firmware and UI version, as well as the TSID of the TSR-302.

Tap to return to the main screen.

Save & Exit

On the main screen, tap Save & Exit to save all settings, exit the setup screens, and return to the main project.

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