

# iTEC-700 (iOS) App WiFi Link Quick Guide



**How to connect and use  
the iTEC-700 App with the  
TEC WiFi Link and DG-700  
Pressure and Flow Gauge.\***

\*Will work with the DG-500 gauge

*The iTEC-700 App is available for iOS devices from the Apple App Store.*

**Performance Testing Tools**

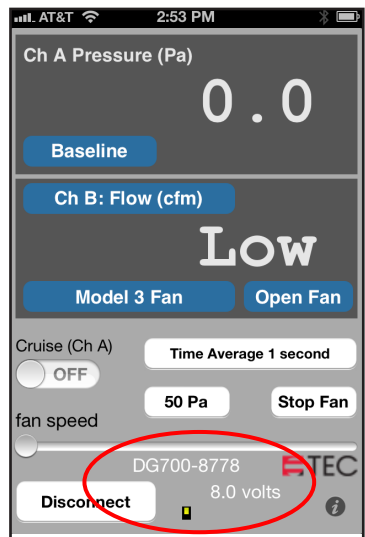
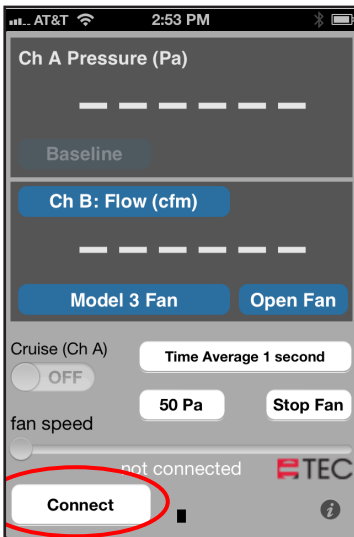
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**TEC**  
The Energy Conservatory

# iTEC-700 (iOS) App – WiFi Link Quick Guide

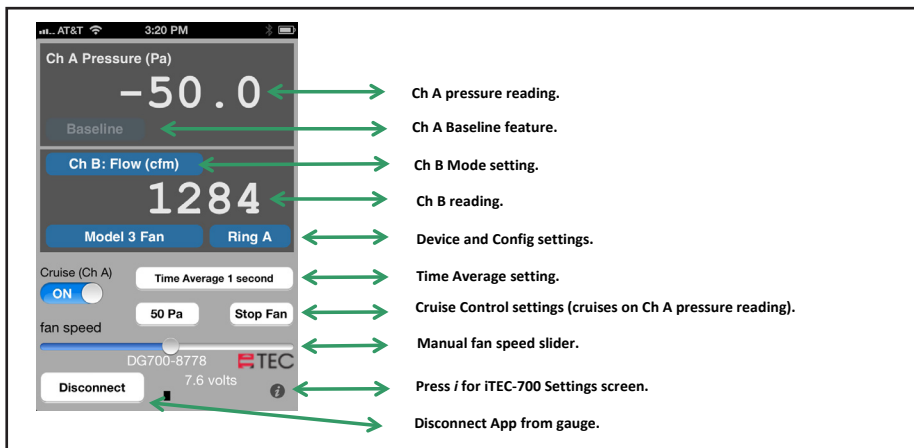
1. First connect your iOS device to the TEC WiFi Link network (see **TEC WiFi Link Quick Guide**). Open the iTEC-700 App and click on the **Connect** button at the bottom left side of the main App screen. The App will search for a DG-700 gauge using the wireless network that the mobile device is currently connected to. If a single gauge is found, the App will automatically connect with the gauge. If multiple gauges are found (this can only happen when using **Router Mode**), the App will provide a list of available gauges - click on the one you want. Once the App and gauge are connected, the gauge serial number and battery voltage will display at the bottom of the screen and the App will begin displaying readings from the gauge.

**Note:** Once the communication link has been established between the iTEC-700 App and the gauge, light #3 on the TEC WiFi Link will turn on. The flashing yellow light #4 indicates data transfer between the App and the gauge. The DG-700 display will remain visible even though iTEC-700 is controlling the gauge.



2. If the App can't find a gauge to connect with, the **Connect** button will not appear and the App will continue searching. Possible reasons for the **Connect** button not appearing include:
  - Your mobile device is not connected to the TEC WiFi Link network (TEC WiFi Link configured to **AP Direct Connect Mode**).
  - The TEC WiFi Link or DG-700 are not powered on.
  - Your mobile device is not connected to the specified Router (TEC WiFi Link configured to **Router Mode**).
  - Your mobile device is out of range of the TEC WiFi Link network or Router.

## iTEC-700 Main Screen



## A few suggested applications for the i-TEC-700 App

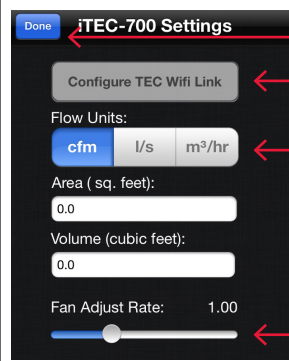
- **Combustion Safety testing:** Set up the DG-700 with TEC WiFi Link in the combustion appliance zone (CAZ). Use **Ch A** to measure CAZ pressure WRT to outside (**Ch A Input** tap open to the CAZ, and **Ch A Ref** tap connected to outside). **Ch B** can also be set to simultaneously measure draft for natural drafting appliance (**Ch B Input** tap connected to a static pressure probe inserted into the appliance vent, and **Ch B Ref** tap open to the CAZ).

You can now walk around the house with your mobile device running the iTEC-700 App and monitor the CAZ pressure while you turn exhaust devices on and off, and open and close doors. You can use the Baseline feature on **Ch A** to zero out the **Ch A** CAZ reading before turning on the exhaust devices. If you are also using **Ch B** to monitor appliance draft, be sure the **Ch B** Mode is set to pressure.

- **Duct Leakage to Outside testing:** Set up the DG-700 with TEC WiFi Link at the Blower Door (standard fan and gauge set up). Take your mobile device running the iTEC-700 App to the Duct Blaster® system that is set up to pressurize (or depressurize the duct system). Use iTEC-700 to control the Blower Door (cruise to 25 Pa) while you manually control the Duct Blaster® system to cruise “zero”.
- **Control the Blower Door Fan Remotely:** Set up the DG-700 with TEC WiFi Link at the Blower Door (standard fan and gauge set up). Use iTEC-700 to control the Blower Door fan (cruise to 50 Pa) to periodically check CFM reduction achieved by your airsealing measures. You can also inspect your air sealing details with smoke without having to crawl down from the attic to turn on the Blower Door fan.

## Configuration Options for the TEC WiFi Link

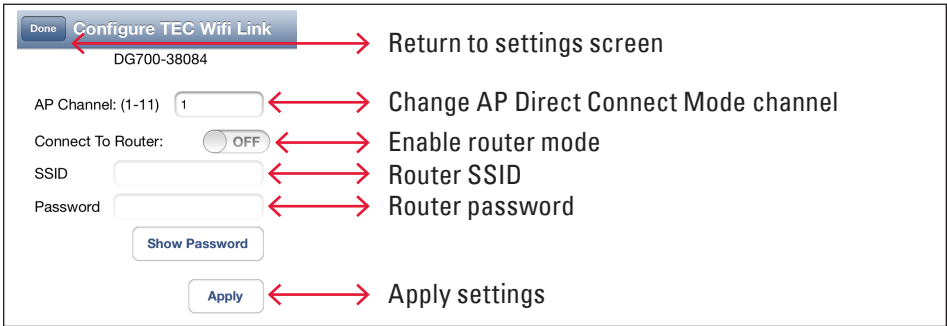
### *iTEC-700 Settings/Configure Screens*



The screenshot shows the 'iTEC-700 Settings' screen. At the top left is a 'Done' button. Below it is the title 'iTEC-700 Settings'. A 'Configure TEC Wifi Link' button is positioned below the title. Underneath is the 'Flow Units:' section with three buttons: 'cfm' (selected), 'l/s', and 'm³/hr'. Below that are two input fields: 'Area (sq. feet):' with a value of '0.0' and 'Volume (cubic feet):' with a value of '0.0'. At the bottom is the 'Fan Adjust Rate:' section with a value of '1.00' and a slider control.

Annotations with red arrows point to the following elements:

- Return to main iTEC-700 screen (pointing to the Done button)
- Press button for Configure screen (pointing to the Configure TEC Wifi Link button)
- Flow units (Ch B) (pointing to the cfm, l/s, and m³/hr buttons)
- Fan adjust rate (cruise control) (pointing to the slider control)



## How to Set-Up the TEC WiFi Link in Router Mode

1. Connect your mobile device to the TEC WiFi Link in **AP Direct Connect Mode**.
2. Run the iTEC-700 App and connect to the gauge.
3. Go to the Settings screen (press the **i** on the Main screen).
4. Go to the Configure screen (press the **Configure TEC WiFi Link** button).
5. Enable **Router Mode** (turn on the **Connect To Router** button).
6. Enter the Router SSID and Password (these must match the SSID and Password for the Router you will connect to).
7. Press the **Apply** button. The TEC WiFi Link is now in **Router Mode**.
8. The TEC WiFi Link will now begin searching for the Router that you specified in the Configure screen. Light **#2** will blink until the TEC WiFi Link finds the Router and connects to it (then light **#2** will turn on solid).
9. If you wish to re-connect to this gauge using **Router Mode**, you will need to close the App, connect your mobile device to the specified Router network, re-open the App and connect to the gauge.

## How to Re-Configure the TEC WiFi Link back to AP Direct Connect Mode from Router Mode

There are two methods to re-configure the TEC WiFi Link back to **AP Direct Connect Mode**.

### Method 1

1. Power on the TEC WiFi Link and the DG-700 gauge.
2. Press and hold button **A** on the TEC WiFi Link for 5 seconds. All 4 lights will begin flashing. When you release button **A**, the TEC WiFi Link will restart in **AP Direct Connect Mode** along with the default password/security key of **tecwifi12** (this will also clear the **Router Mode** SSID and Password).

### Method 2

1. Connect your mobile device to the specified Router network.
2. Run the iTEC-700 App and connect to the gauge.
3. Go to the Settings screen (press the **i** on the Main screen).
4. Go to the Configure screen (press the **Configure TEC WiFi Link** button).
5. Disable **Router Mode** (turn off the **Connect To Router** button).
6. Press the **Apply** button. The TEC WiFi Link is now in **AP Direct Connect Mode**.
7. If you wish to re-connect to this gauge using **AP Direct Connect Mode**, you will need to close the App, connect your mobile device to the TEC WiFi Link network, re-open the App and connect to the gauge.

## How to Change the AP Direct Connect Mode Network Channel

There are two methods to change the network channel being used for **AP Direct Connect Mode**.

### Method 1

1. Power on the TEC WiFi Link and the DG-700 gauge.
2. Briefly press button **A** on the TEC WiFi Link. The current network channel will jump up by 5 channels within the allowed channel frequencies of 1 to 11 (e.g. channel 1 to channel 6, or channel 6 to channel 11, or channel 11 to channel 5, etc).

### Method 2

1. Connect your mobile device to the TEC WiFi Link in **AP Direct Connect Mode**.
2. Run the iTEC-700 App and connect to the gauge.
3. Go to the Settings screen (press the **i** on the Main screen).
4. Go to the Configure screen (press the **Configure TEC WiFi Link** button).
5. Enter a new channel number in the **AP Channel** field (in the United States, channel selection should be limited to channels 1 through 11).
6. Press the **Apply** button.
7. The TEC WiFi Link will now use the updated network channel.

*The iTEC-700 App is available for iOS devices from the Apple App Store*



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