

SCOUT200 Series Quick Start Guide

OVERVIEW

- **SCOUT220-IS & SCOUT240-IS** are intrinsically safe portable data collectors designed for hazardous environments. The data collectors are **ATEX Zone 1** and **CSA Class 1 Zone 1** compliant.
- **COMMTEST220 & COMMTEST240** are portable data collectors that cater to non-hazardous environments.
- The industrial handheld is an intrinsically safe interface device.
- **SI Collector** app runs on the industrial handheld.



⚠ Important Safety Information ⚠



Scout200 Series uses an accelerometer with a powerful magnet base. Do not use your data collector before reading the product safety advisory in the Installation and Operation Manual.



Fundamentals

Charge Device

To charge the device before or during the initial use, plug the supplied charger into the data collector's **DC port**

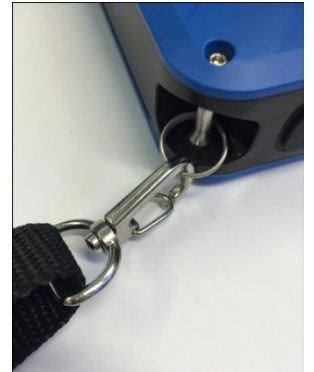


It takes about three hours to fully charge the device.

Attach Strap or Belt Clip


To use the shoulder strap, clip the strap to the **safety breakaway rings** installed on strap rails.

**Attach the strap to the safety breakaway rings only.
Do not attach the strap directly to strap rails.**



To attach the belt clip, place the bottom two edges of the data collector into the clip. Press down on the top two edges to secure the device.

Power Device

To turn the data collector on, press the **power button** .



Buttons, LEDs, and Connectors

Buttons



Power on/off button.



Action button executes the functionality of the primary button on the current toolbar in the app. The primary button is identified by a yellow highlight. This functionality is mostly used for on-route recording.

LEDs



The **Power** LED remains solid green when the device is on. It flashes to indicate low battery.



The **Charging** LED remains steady and amber while the device is charging.



Bluetooth LED is steady when the device is paired with an industrial handheld, but the link is idle.

The LED flashes while the device transfers data to S1 Collector app.

The LED is off if the data collector is not currently connected to an industrial handheld.

Connectors



DC Connector

Insert the supplied 12V adapter into the DC connector to charge the data collector. Charge the device in a safe area only.



CH1 & CH2+ LEMO Connectors are silver with double alignment keys.

Connect sensors to these inputs.

Use the CH2+ connector with the triple adapter or a triax for four channel models.



TACH Connector is black with single alignment key.

Connect a tachometer or Keyphasor to Tach Connector.





S1 Collector App Fundamentals


Download and Install S1 Collector App

1. Go to **GE BN Technical Support Portal** at www.bntechsupport.com.
2. Under **Products & Documentation**, select **Download Center**.
3. Select **Browse Software Updates**.
4. Select **Service Packs, Firmware, Misc. Software**.
5. Browse the list of available software to find the app.
6. Select **S1 Collector App**.
7. Follow the instructions to download and install the app.

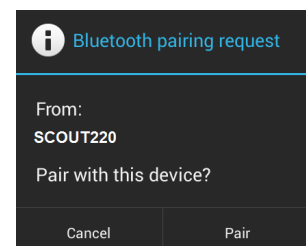
Open S1 Collector App

1. Turn on your industrial handheld.
2. Select **Applications** .
3. Find and select **S1 Collector** .

Pair S1 Collector App with SCOUT200 Series

8. Enable Bluetooth on your industrial handheld. Refer to the device's user manual for instructions.
9. Open the **S1 Collector App**.
10. Select **Devices** .
11. Wait while the handheld scans to find nearby data collectors. A list of available devices is displayed.
12. Select your data collector using its serial number. A message is displayed while the app connects to the data collector.

When you connect to a data collector, your industrial handheld device displays a **Bluetooth Pairing Request** message. Select **Pair** to proceed.



S1 Collector App – Main Buttons



Back / Home – Return to the previous screen.
Tap and hold to display a list of recently accessed screens including the app's main menu.



ROUTES – Record vibration for a predetermined list of machine locations.



MEASURE – Take an off-route recording such as spectrum and waveform measurements.



SYNC – Send recorded data from the S1 Collector app to System 1. Receive updated folder and route information from System 1.



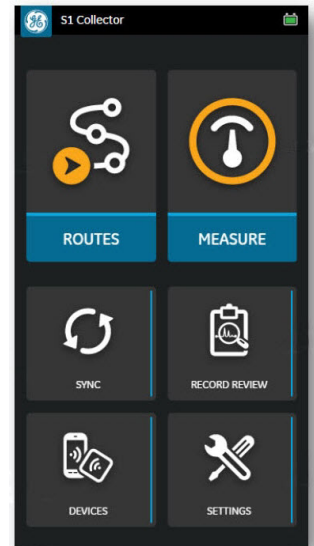
RECORD REVIEW – Conduct a quick onsite review of recordings on the handheld.



DEVICES – Pair the handheld with a data collector and view information about the paired device.




SETTINGS – Set preferences for your industrial handheld, app, database, language and measurement units.



Sync Data


Sync Data Using USB Tethering

1. On the S1 Collector app's main menu, select **SYNC** .
2. Select the **USB** option.
3. Use a USB cable to connect the device to the computer hosting System 1.
4. From the displayed message on the handheld, select **OK**. Device settings are displayed.
5. In **Tethering & portable hotspot**, enable **USB tethering**.
6. Return to the S1 Collector application.
7. To sync data in System 1, select **Instrument Mode**.

For details, see SCOUT200 Series Installation and Operation Manual (document 109M1269).

Sync Data Using Wi-Fi

To sync data using Wi-Fi, the handheld and computer hosting System 1 must be on the same network subnet.




1. Select **SYNC**  from the S1 Collector app's main menu.
2. Select **Wi-Fi**.
3. Use **Instrument Mode** in System 1 to sync data.

Sync Data with Remote Comms

See SCOUT200 Series Installation and Operation Manual (document 109M1269).

Record Route

1. Select **ROUTES**  to display the **Routes** window.
The list of available routes is displayed and information about each route:

-  Total number of points in the selected route
-  Number of points with completed recordings
-  Percentage of points with completed recordings

2. Select a database, folder, and route. The **Route Configuration** window is displayed.

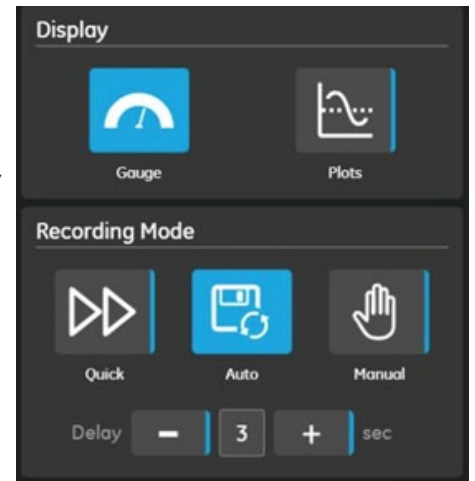
3. Select a **Display** and **Recording Mode**

Display

- **GAUGE** - Displays a color-coded gauge showing the vibration level compared to the alarm threshold.
- **PLOTS** - Displays spectra &/or waveform plots allow data-quality review and analysis.

Recording Mode

- **QUICK MODE** - Takes all measurements at this location as quickly as possible, without delays or user intervention.
- **AUTO MODE** - The S1 Collector App automatically moves on to subsequent recordings at this measurement location with a short, user-configured delay.
- **MANUAL MODE** - The S1 Collector app allows you to visually analyse the data and/or remeasure before manually proceeding to the next measurement.




4. Select **Sensors** to enable the channel(s) you have sensors connected to and select or create the appropriate sensor for each channel. Press **Done** to return to the **Route Configuration** screen.


5. Select **START**  or **RESUME** 
The **Route Details** window is displayed.

6. The blue circle indicates the Machine – Bearing – Point where the sensor should be placed. Then select

MEASURE  to start recording.


The type of data displayed, and the progress to the next measurement, is controlled by the Display and Mode selections you made earlier. You may be presented with these options:


 To view a graph of the recording, select **ANALYZE**.

 To retake the recording, select **REMEASURE**.
The new recording overwrites the previous one.

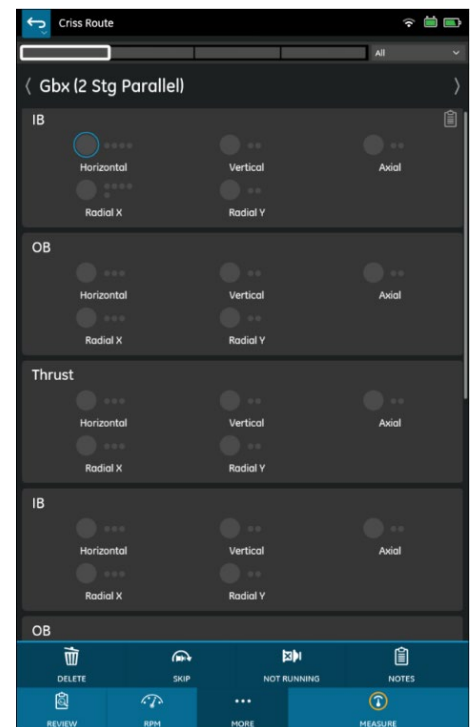
7. You can use **MORE**  to access these options:

 **Skip** recording a machine on a route.

 Toggle the status of a machine from **running** to **not running** and vice versa

 **Delete** opens a flexible interface to remove unwanted recordings.

8. **Sync** the data between the S1 Collector app and System 1.

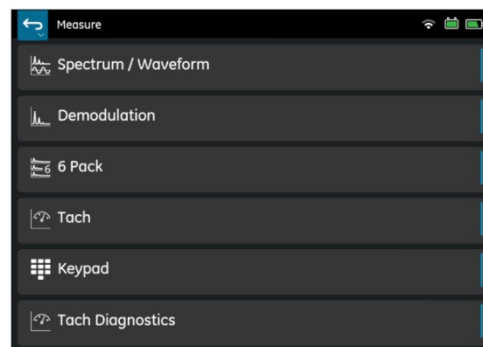


Off-Route Recording

1. Select **MEASURE**  from the app's main menu.

The **Measure** window displays these options:

- **Spectrum / Waveform**
Take an off-route spectrum or waveform recording or both.
- **Demodulation**
Take an off-route demodulation recording.
- **6 Pack**
Simultaneously record three waveforms and three spectrums per channel.
- **Tach**
Measure a machine's running speed using a tachometer.
- **Keypad**
Enter additional information such as temperature, pressure, or motor current of a machine.
- **Tach Diagnostics**
Troubleshoot tachometer input signals or triggering problems. Adjust threshold and hysteresis settings.
- **Cable Test**
Check sensor bias voltages and cable connections.




2. Select a measurement type such as **6Pack**.
The **Measure Configuration** window is displayed.
3. You can change the default parameter set and the default sensor.


In the S1 Collector app, a **thin blue line** next to an option represents a **drill-down menu**. The drill-down menu bar displays related operations.


To change sensor settings, use the blue **Drill-Down Menu Bar** next to the parameter set and the sensor.

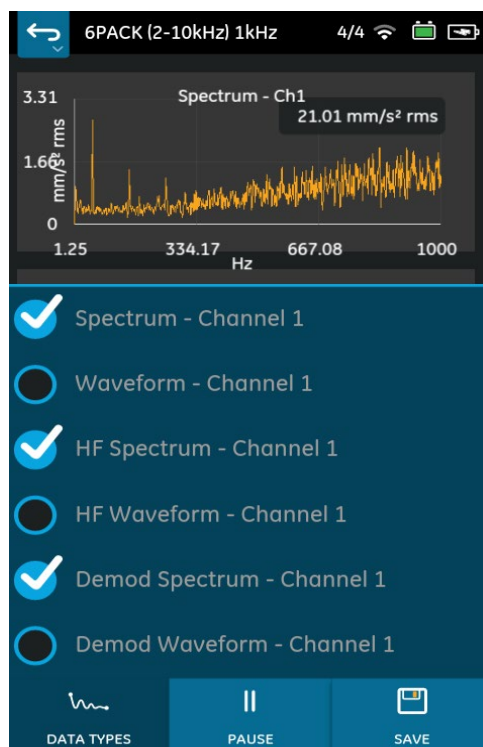
4. To begin an off-route recording, select **MEASURE**  .

 During the recording, up to four measurement charts are displayed. Choose from these operations:

 **DATA TYPES** Select which measurements to view.

 **PAUSE** Halt display of new measurement data.

 **SAVE** Save the recording. Then select or create a location for an enterprise, machine, point and axis.



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