

USER GUIDE

Sensor eValuator™

Testing and diagnostics.

Error Reporting.

Sensor Validation.

Training and Technology for Injection Molders



USER GUIDE

Sensor eValuator™

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USER GUIDE INTRODUCTION

Read, understand, and comply with all following instructions. These instructions must be kept available for reference at all times.

DISCLAIMER

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ALERTS

The following three alert types are used as needed to further clarify or highlight information presented in the manual:



Term

A definition of a term or terms used in the text.



NOTE *A note provides additional information about a discussion topic.*



CAUTION *A caution is used to make the operator aware of conditions that can cause damage to equipment and/or injury to personnel.*

PRODUCT OVERVIEW

The *Sensor eValuator*™ provides testing of up to 30 Lynx cavity pressure sensors simultaneously, including the following:

- Automatic Testing
 - Strain Gage Sensors Lynx Communication, Zero Offset, and Broken Wire/Failed Gage Tests
 - Piezoelectric Sensors Lynx Communication and Drift Tests
- Manual Testing
 - Strain Gage Sensors Basic Force Test
 - Piezoelectric Sensors Basic Force Test

Specifications

- Hardware
 - Power Requirements 115–240 V AC
 - Max Lynx™ Sensors 30
- Application
 - Tablet Samsung Galaxy Tab 4
 - OS Requirements Android 4.4 KitKat or Later
 - Memory Required 10 MB

This Product Includes:

- 1 RJG, Inc. Sensor eValuator™
- 1 7" Samsung Tablet with USB cable
- 1 OtterBox Tablet Case
- 1 120 V AC Power Supply
- 1 Lynx Cable




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START EQUIPMENT AND APPLICATION

Connect the power supply cable to the Sensor eValuator **1** power port and a power source. The green **2** power indication light will indicate that the Sensor eValuator is on; if no green light is visible the Sensor eValuator is off.

Connect the Lynx cable to the Sensor eValuator **3** Lynx input, and the sensor(s) to be tested.

Select  the RJG Sensor eValuator **4** application icon on the tablet home page to start the application.



NOTE WiFi must be enabled on the tablet to connect to the Sensor eValuator.



NOTE For optimal performance the tablet should be physically near the Sensor eValuator and the sensors being tested.



RUN AN AUTOMATED SENSOR TEST

MULTIPLE SENSORS

Select a **1** **Sensor eValuator** icon from the application home page with which to connect. The Sensor eValuator icon will be grey until selected, and will turn green after selection.

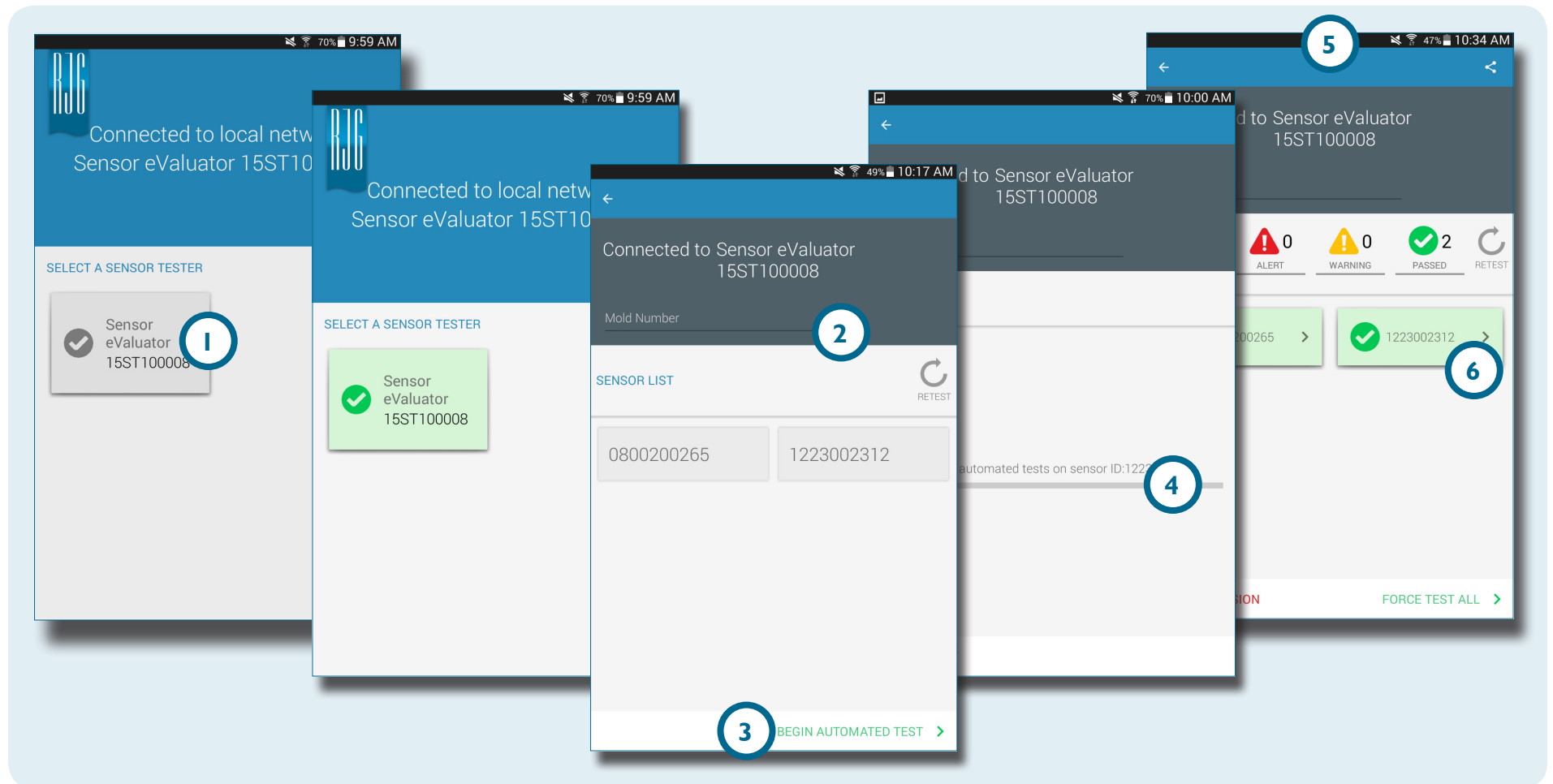
Enter the **2** **Mold Number** in the provided field. Select **3** **Begin Automated Test** to test all sensors.

The **4** **Progress Bar** will indicate the test progress. Wait for the test to complete.


The **5** **automated test complete page** will indicate any alerts, warnings, and the number of sensors that passed the test.

Select a **6** sensor to enter the sensor information, including Location, Cavity Name, Pin Size, Sensitivity, Sensor Model, and Sensor Serial Number.

Complete the testing by running a force test (page 5).



SINGLE SENSOR

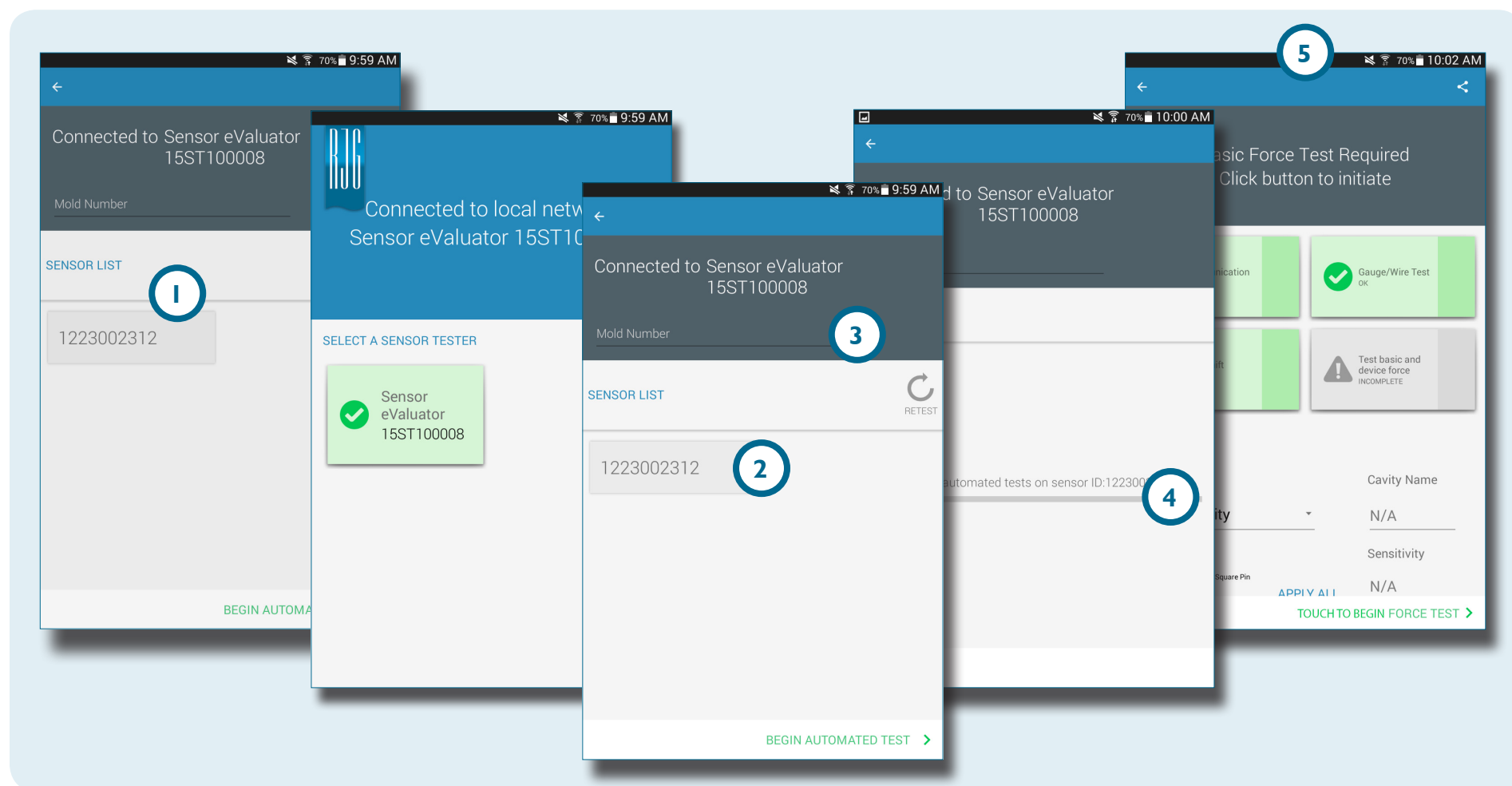
Select  a **1** **Sensor eValuator** icon from the application Home Page with which to connect. The Sensor eValuator icon will be grey until selected, and will turn green after selection.

Select  the desired **2** **sensor** to test.

Enter the **3** **Mold Number** in the provided field. The **4** **Progress Bar** will indicate the test progress. Wait for the test to complete.

The **5** **test complete page** will indicate if the sensor passed the communication, gage/wire, zero shift (strain gage only), and drift (piezoelectric sensors only) tests. Enter the sensor information below the test results, including Location, Cavity Name, Pin Size, Sensitivity, Sensor Model, and Sensor Serial Number.

Complete the testing by running a manual force test (page 5).



RUN A MANUAL SENSOR FORCE TEST

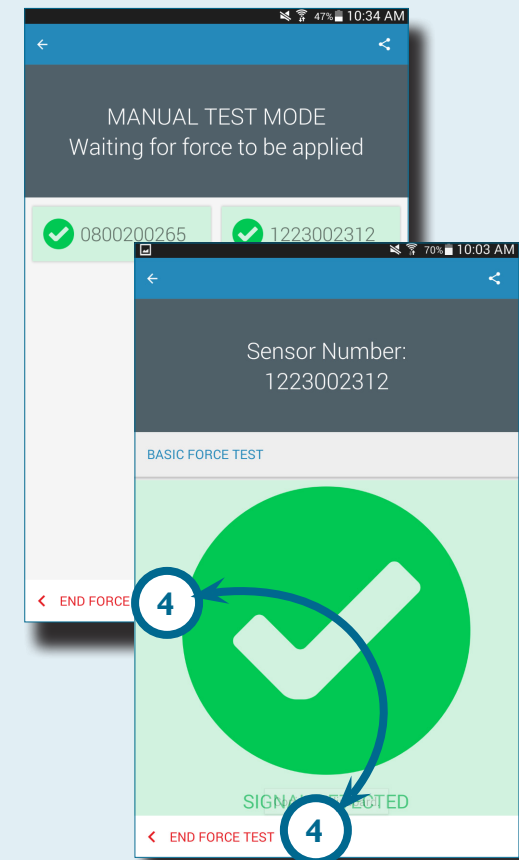
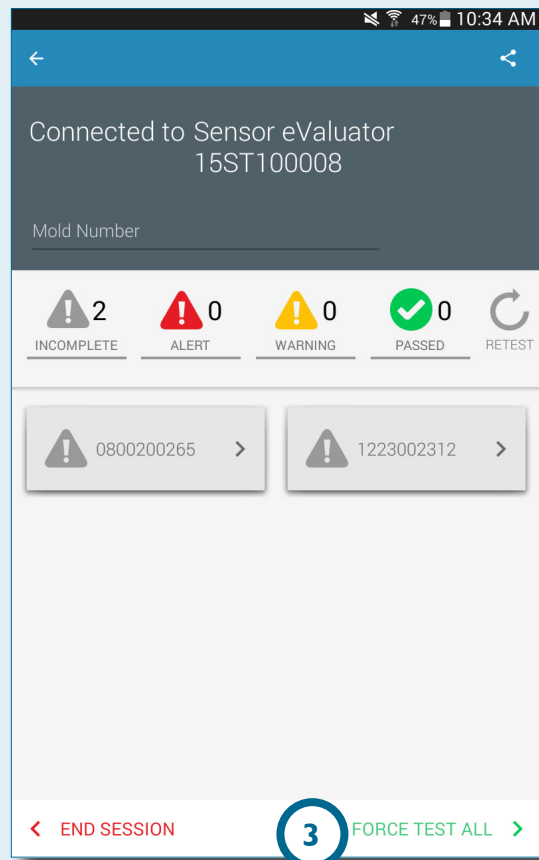
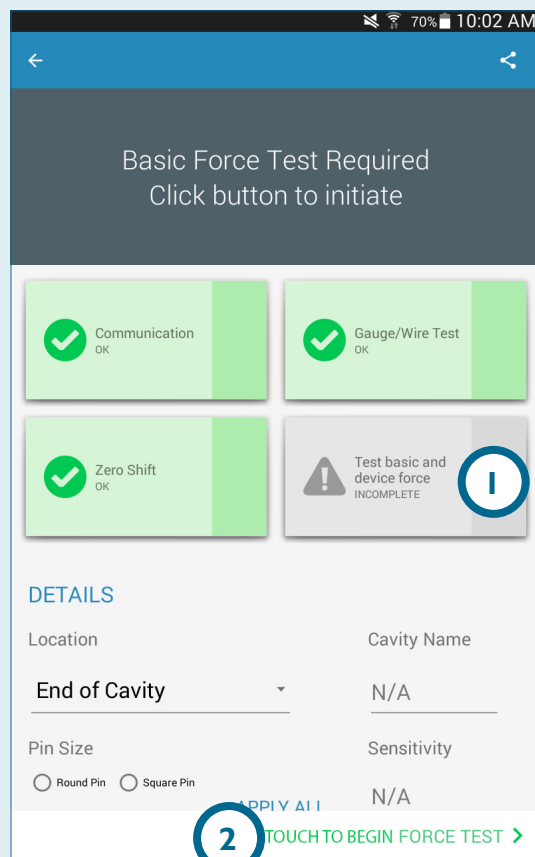
Sensor force tests require the operator to physically press on the sensor(s) being tested in order for the Sensor eValuator to evaluate if the sensor is detecting force.

NOTE The application will time out if no signal is received from the sensor in a specified length of time; be ready to apply force to the sensor(s).

STRAIN GAGE SENSORS

After completing an automated test, **select** **1** [Test Basic](#) and [Device Force](#) **OR** **2** [Touch to Begin Force Test](#) to force test a single sensor, **OR** **3** [Force Test All](#) to force test all sensors.

Select **4** [End Force Test](#) to return to the test results screen when the force test is complete.



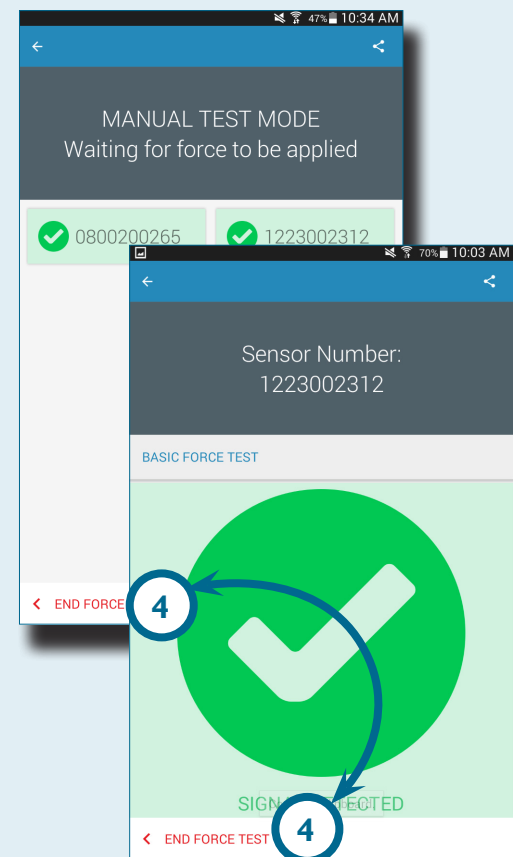
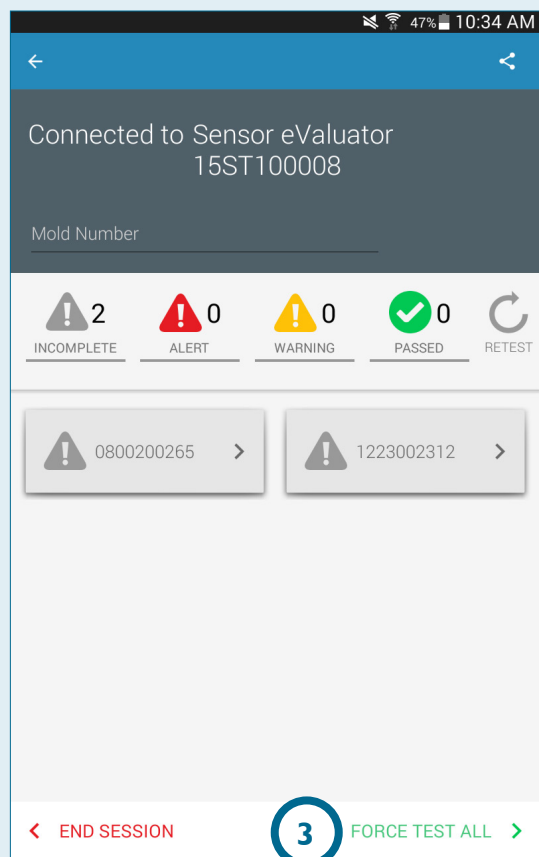
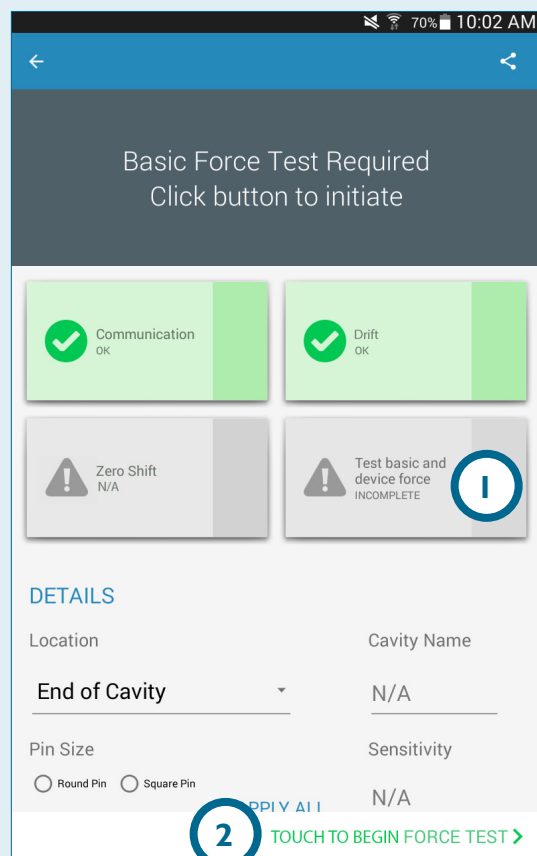
PIEZOELECTRIC SENSORS



NOTE Do not move the Lynx cable during multi-channel piezoelectric sensor testing. Moving the Lynx cable during multi-channel piezoelectric sensor testing will create false test results.


After completing an automated test, select **1** Test Basic and Device Force **OR** **2** Touch to Begin Force Test to force test a single sensor, **OR** **3** Force Test All to force test all sensors.

Select **4** End Force Test to return to the test results screen when the force test is complete.



GENERATE AND DISTRIBUTE REPORTS

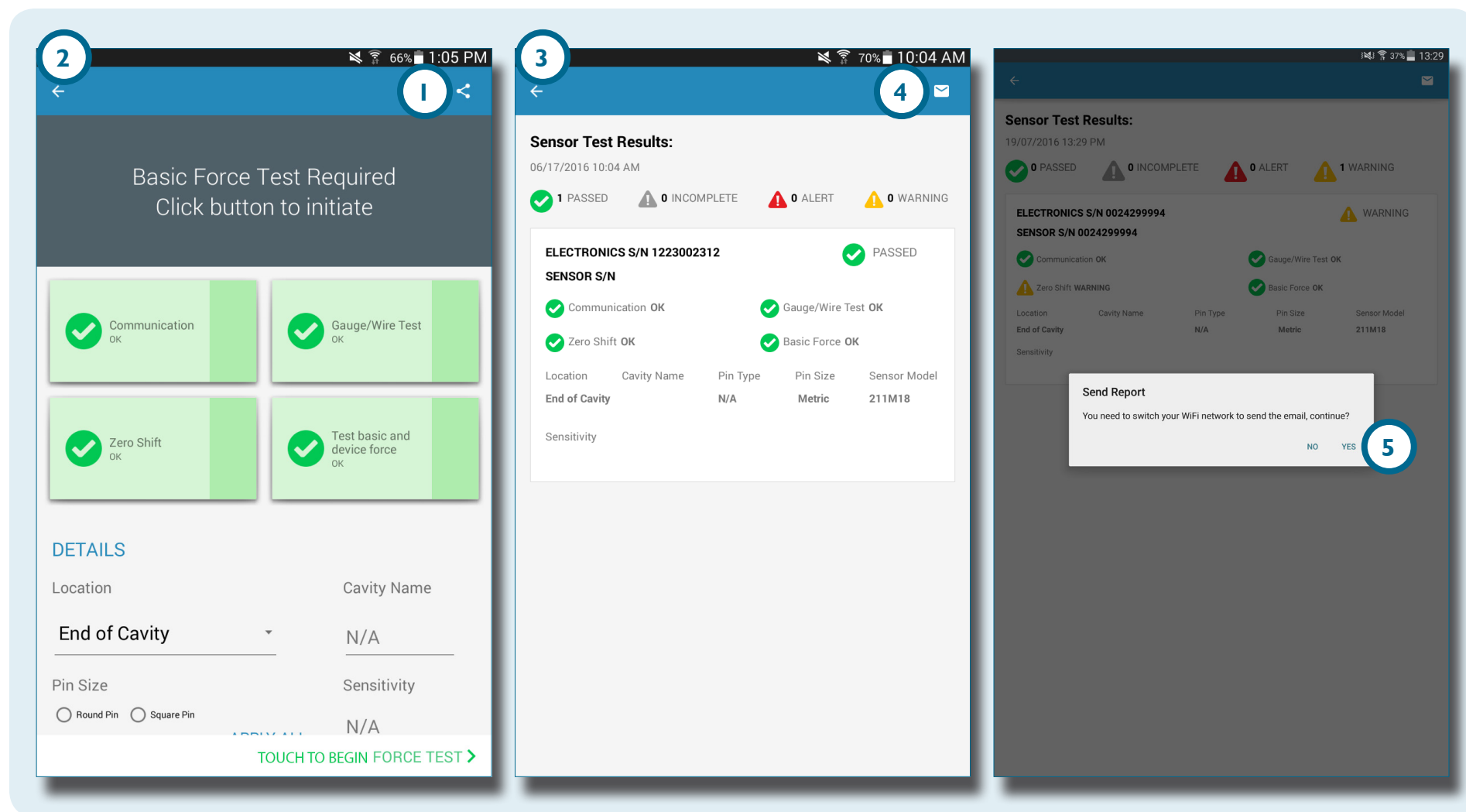
The Sensor eValuator application generates a report file for tested sensors.

Select  the **1** share button located at the top right-hand corner of the **2** completed test screen. The **3** report screen will display.

Select  the **4** email function from the **3** report screen.

Select  **5** YES to disconnect from the Sensor eValuator hardware and connect to a WiFi network.

Email the report to the desired email address.



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SENSOR EVALUATOR HARDWARE

SENSOR EVALUATOR

The **1** Sensor eValuator verifies proper operation of Lynx cavity pressure sensors, and includes the following:

2 Lynx Connector

3 Power Supply Connector

4 Power Supply Indicator

5 Wireless Signal Antenna



LYNX SENSOR CABLE

The [Lynx sensor cable](#) provided with the Sensor eValuator provides a physical connection between the Sensor eValuator and strain gage or piezoelectric sensors for testing.

TABLET

The [tablet](#) provided with the Sensor eValuator device is preloaded with the Sensor eValuator application, and provides a user interface for testing sensors and generating sensor test reports. Refer to the tablet manufacturer's manual for operating and troubleshooting instructions.



NOTE For optimal performance the tablet should be physically near the Sensor eValuator and the sensors being tested.

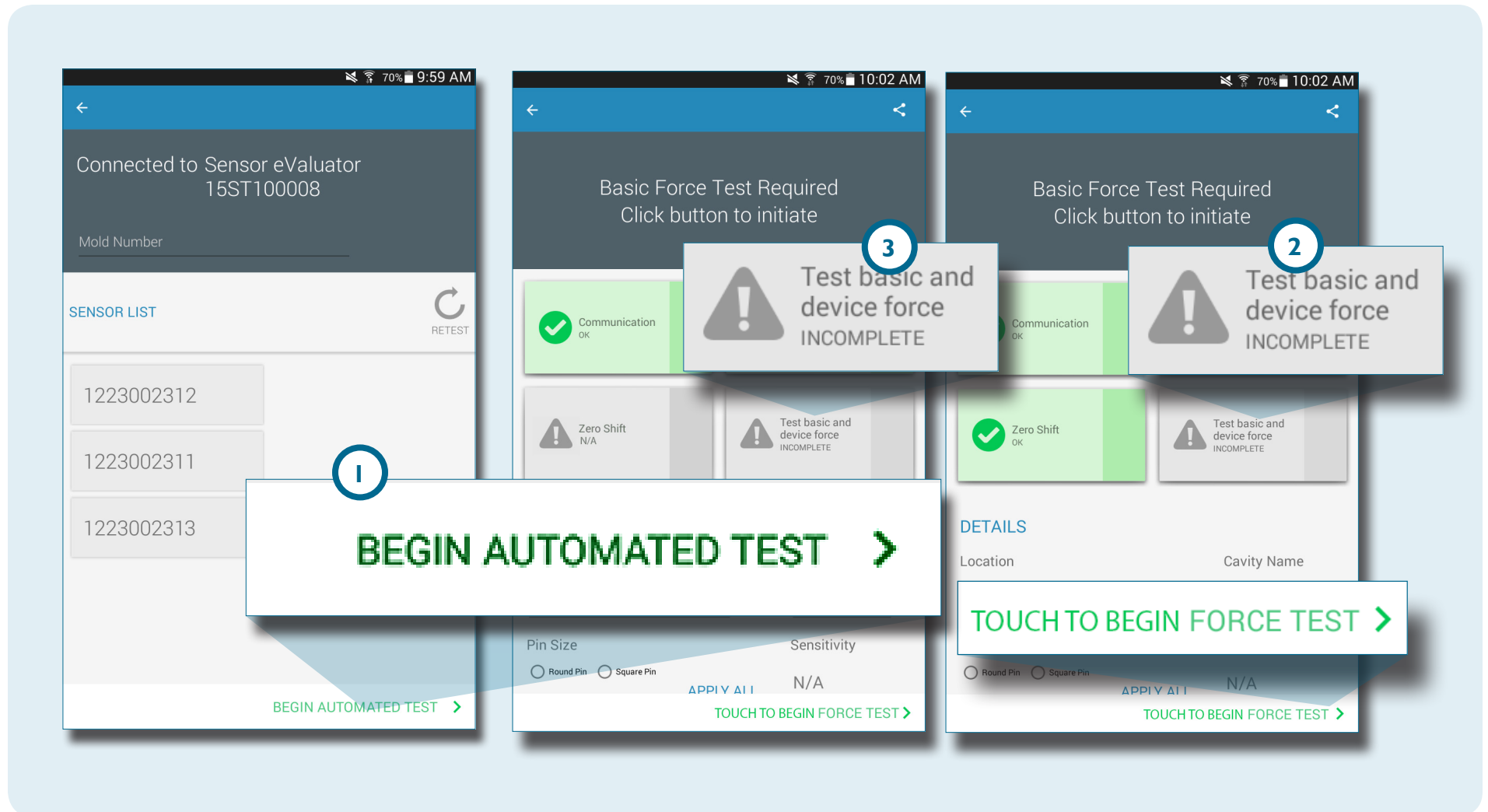


SENSOR EVALUATOR APPLICATION

The *Sensor eValuator* application tests, labels, and generates a report for up to 30 sensors simultaneously.

The application provides the following tests:

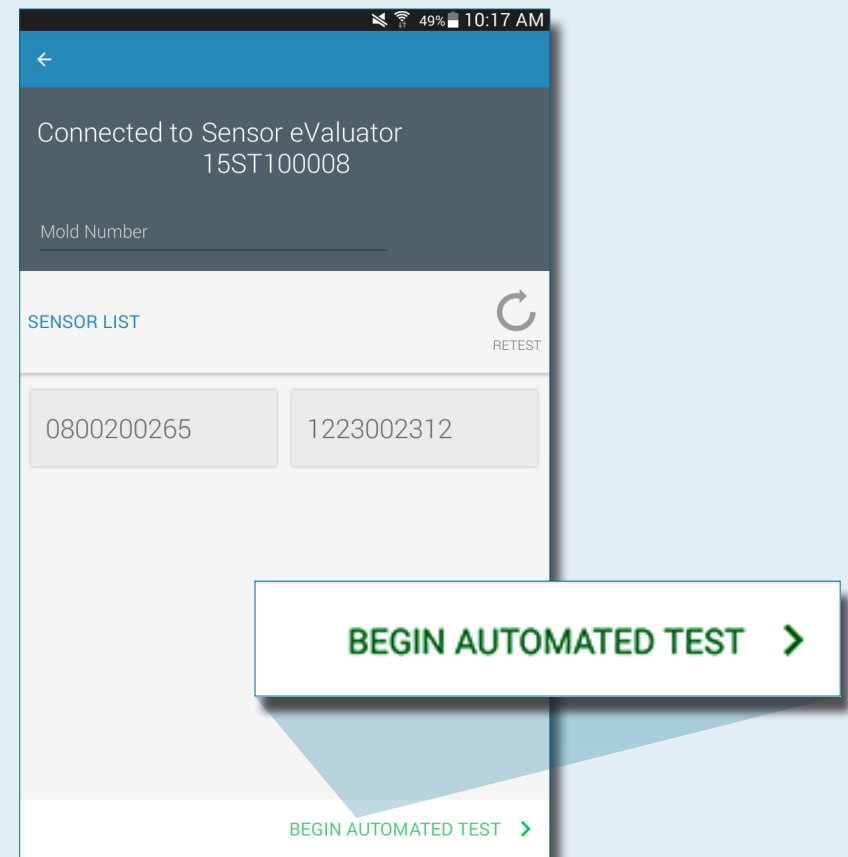
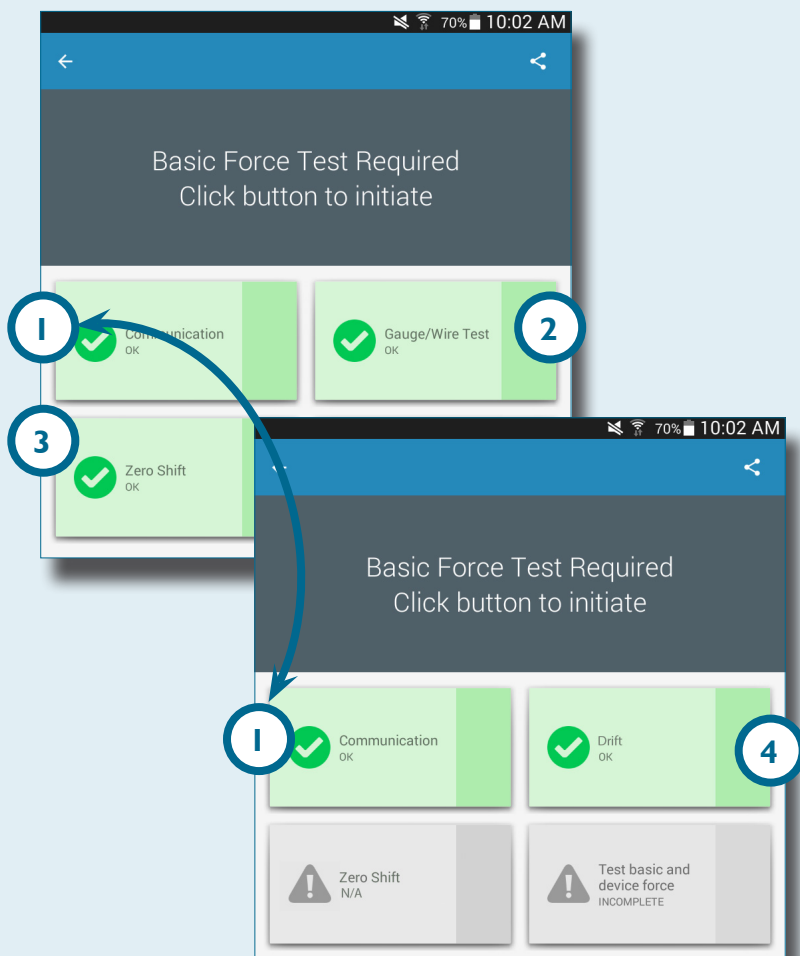
- 1 Automated Sensor Tests (Multiple or Single Sensor)
- 2 Manual Strain Gage Sensor Force Tests
- 3 Manual Piezoelectric Sensor Force Tests



AUTOMATED SENSOR TEST—MULTIPLE SENSORS

The [automated sensor test](#) will test each sensor connected to the Sensor eValuator simultaneously for the following:

- 1 [Communication](#)
- 2 [Gage/Wire Test](#) (for Strain Gage only)
- 3 [Zero Shift](#) (for Strain Gage only)
- 4 [Drift](#) (for Piezoelectric Sensors only)



AUTOMATED SENSOR TEST—SINGLE SENSOR

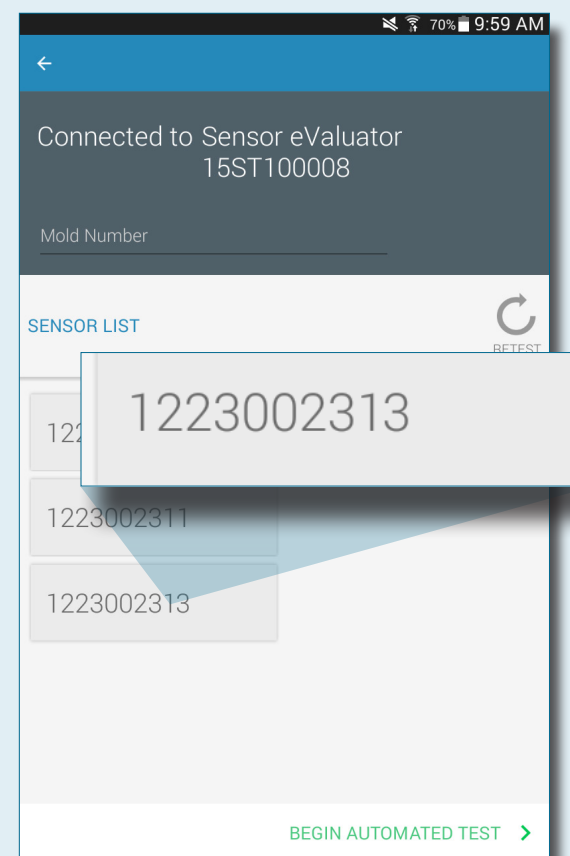
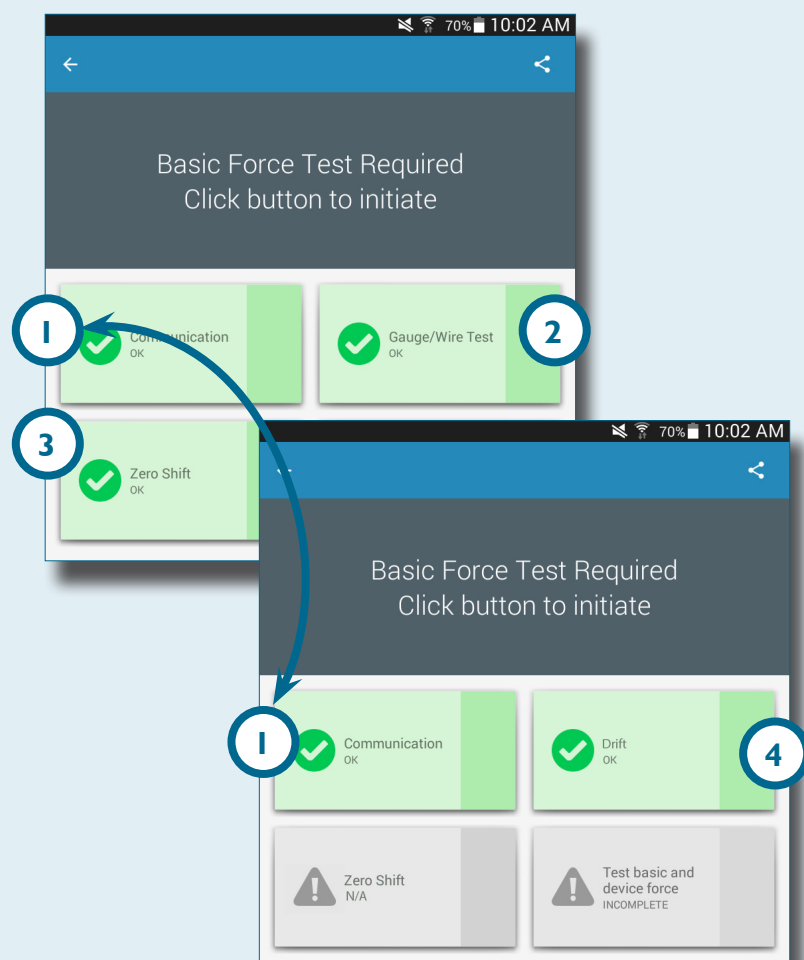
The [automated sensor test](#) will test a single sensor that is connected to and detected by the Sensor eValuator and selected by the user for the following:

1 Communication

2 Gage/Wire Test (for Strain Gage only)

3 Zero Shift (for Strain Gage only)

4 Drift (for Piezoelectric Sensors only)

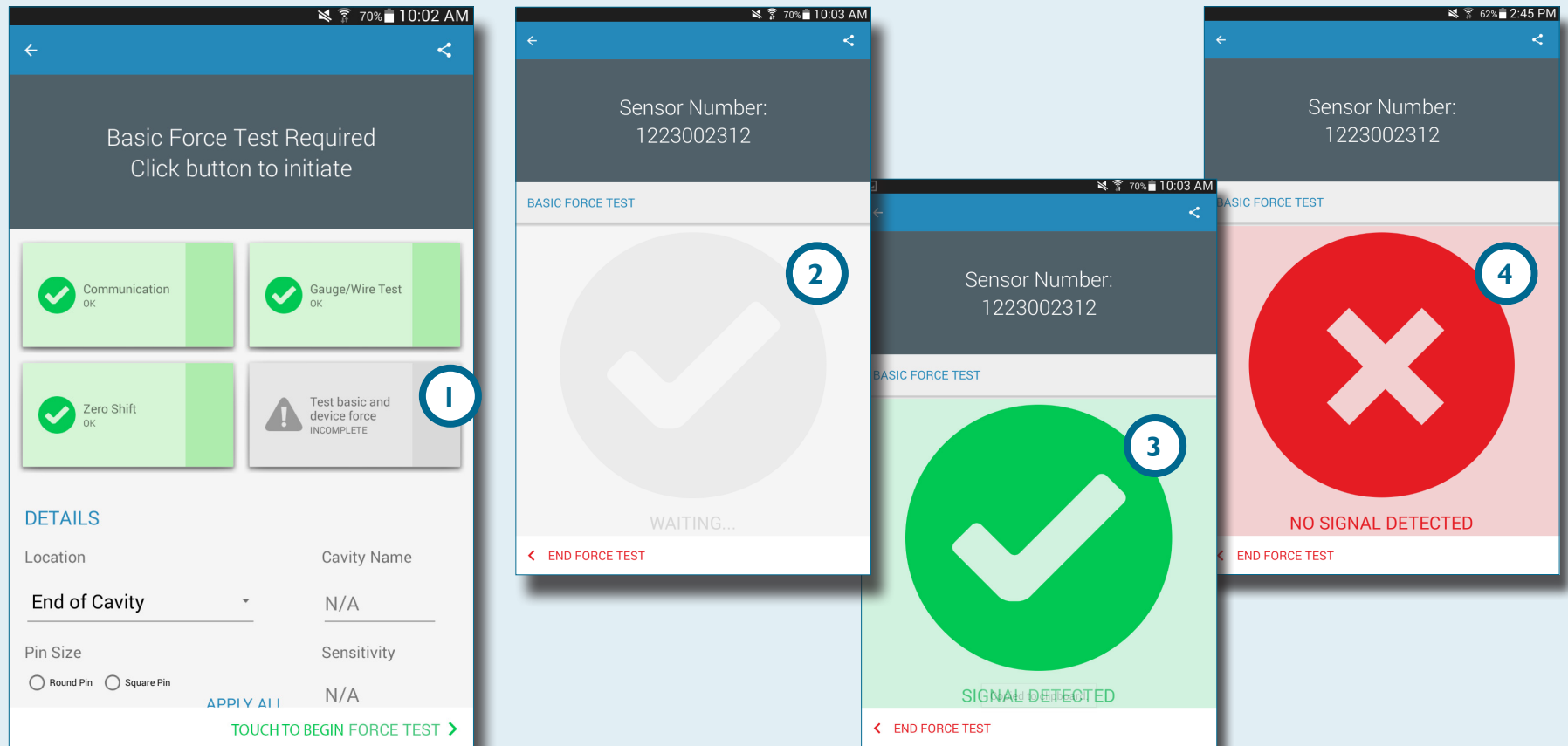


MANUAL STRAIN GAGE SENSOR FORCE TEST

The manual strain gage sensor force test tests for **1 Basic and Device Force**. The operator must physically press on the sensor(s) being tested in order for the Sensor eValuator to evaluate if the sensor is detecting force.

NOTE The application will time out if no signal is received from the sensor within a specified length of time; be ready to apply force to the sensor(s).

The manual strain gage sensor force test will display a **2 test in progress** page, then a **3 Signal Detected** **OR** **4 No Signal Detected** screen to indicate if a sensor signal is or is not detected.



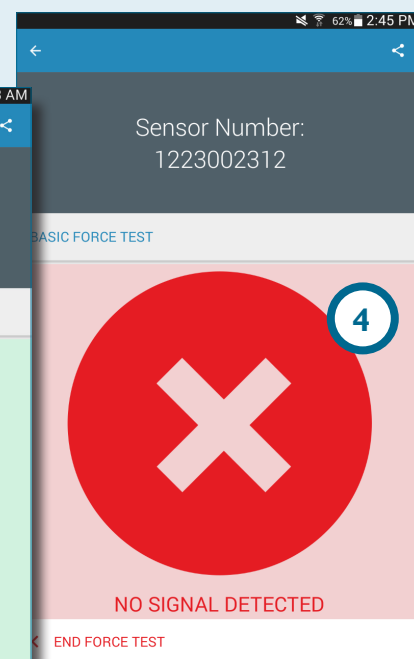
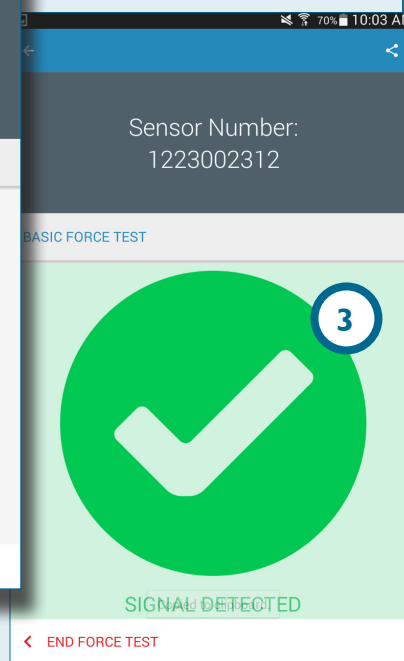
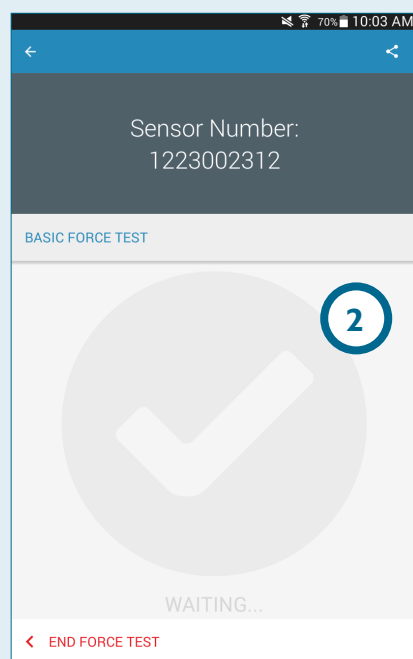
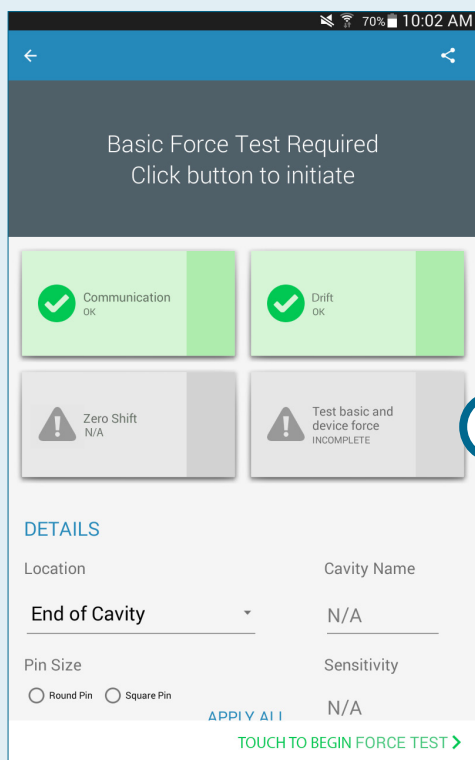
MANUAL PIEZOELECTRIC SENSOR FORCE TEST

The manual piezoelectric sensor force test tests for **1 Basic and Device Force**. The operator must physically press on the sensor(s) being tested in order for the Sensor Tester to evaluate if the sensor is detecting force.

NOTE The application will time out if no signal is received from the sensor within a specified length of time; be ready to apply force to the sensor(s).

The manual piezoelectric sensor force test will display a **2 test in progress** page, then a **3 Signal Detected** **OR** **4 No Signal Detected** screen to indicate if a sensor signal is or is not detected.

NOTE Do not move the Lynx sensor cable during multi-channel piezoelectric sensor testing. Moving the Lynx cable during multi-channel piezoelectric sensor testing will create false test results.



SENSOR TEST RESULTS

The **1** multiple sensor test results page indicates any **2** incomplete tests, **3** alerts, **4** warnings, and the **5** number of sensors that passed testing.


2 Incomplete tests indicates sensors that have not been force tested. Sensor names will be grey until force tested.

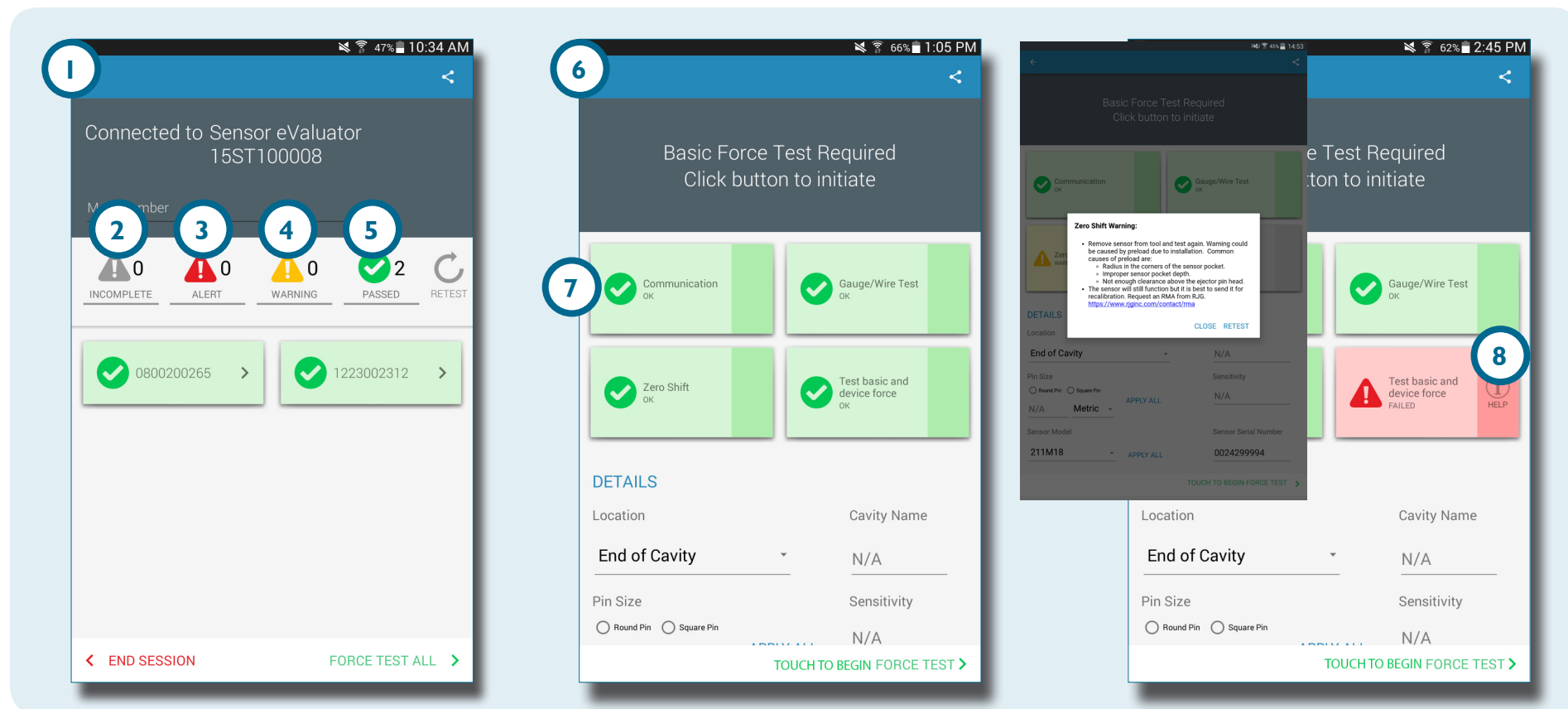
3 Alerts indicate a sensor is outside $\pm 2\%$ (strain gage) or ± 20 picocoulombs/min (piezoelectric) normal.

4 Warnings indicate a sensor is outside $\pm 5\%$ (strain gage) or ± 40 picocoulombs/min (piezoelectric) normal.

The **6** single sensor test results page indicates if the tested sensor has passed communication, gage/wire, zero shift (strain gage only), drift (piezoelectric only), and basic force testing successfully.

Successful tests are indicated by **7** green check marks. If a box is red the sensor is in the **3** alerts state. If a box is yellow, the sensor is in **4** warnings state.

Select  the **8** help icon for information on an **3** alert or **4** warning, or to retest the sensor.

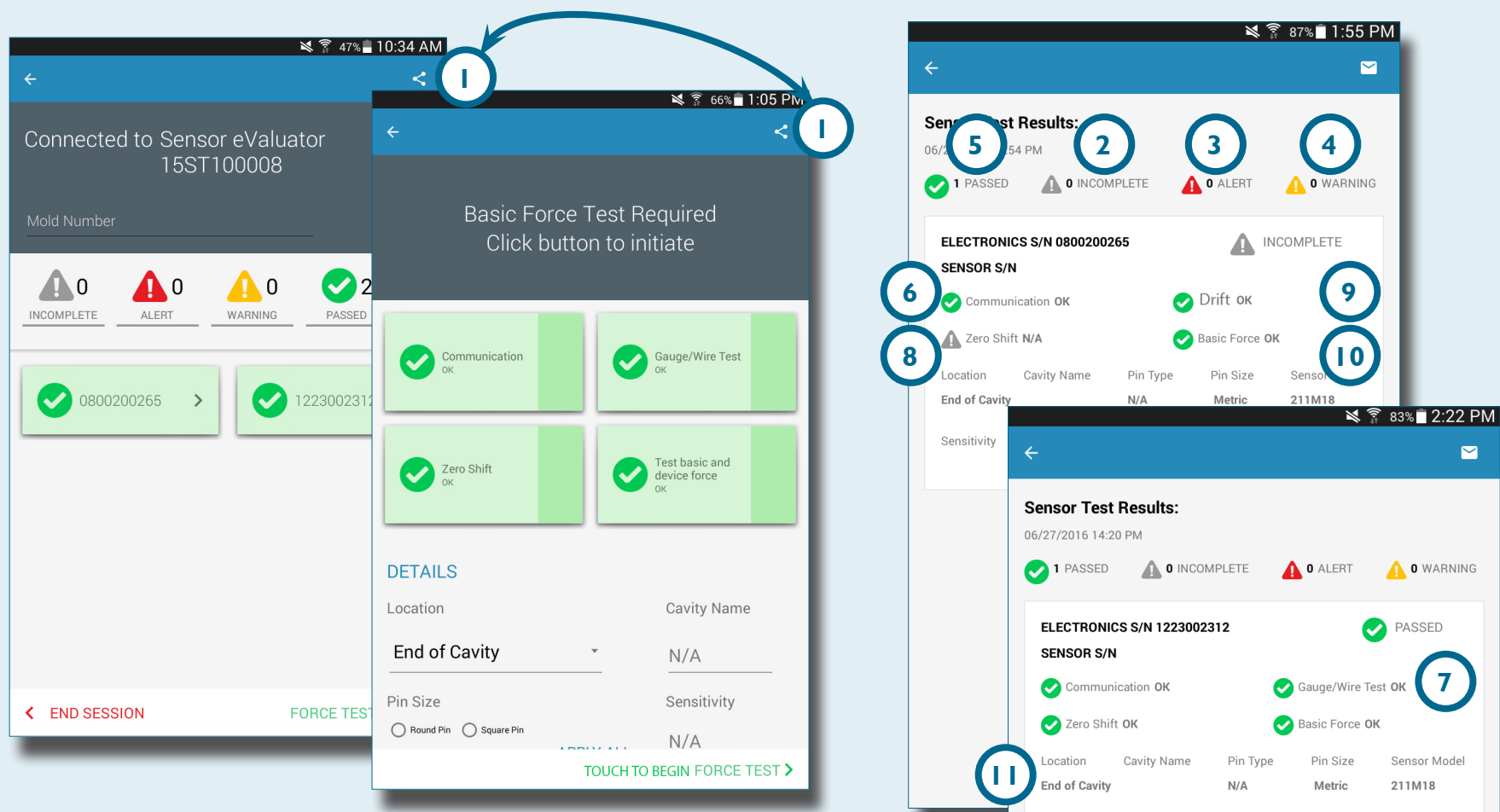


SENSOR TEST REPORTS

Sensor test [reports](#) are generated automatically and stored in the tablet's Device Storage/Downloads folder. The reports can be viewed while in the Sensor eValuator application, or opened or emailed from the tablet's file directory.

Select  the [1 share button](#) to view a sensor test report after completing sensor testing.

Reports detail [2 incomplete tests](#), [3 alerts](#), [4 warnings](#), and the [5 number](#) of sensors that passed testing. The reports also show if the tested sensor has passed [6 communication](#), [7 gage/wire](#) (strain gage only), [8 zero shift](#) (strain gage only), [9 drift](#) (piezoelectric only), and [10 basic force testing](#) successfully. The report will include any entered [11 sensor information](#), such as Location, Pin Type, and Pin Size.



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AUTOMATED SENSOR TESTS

MULTIPLE SENSORS

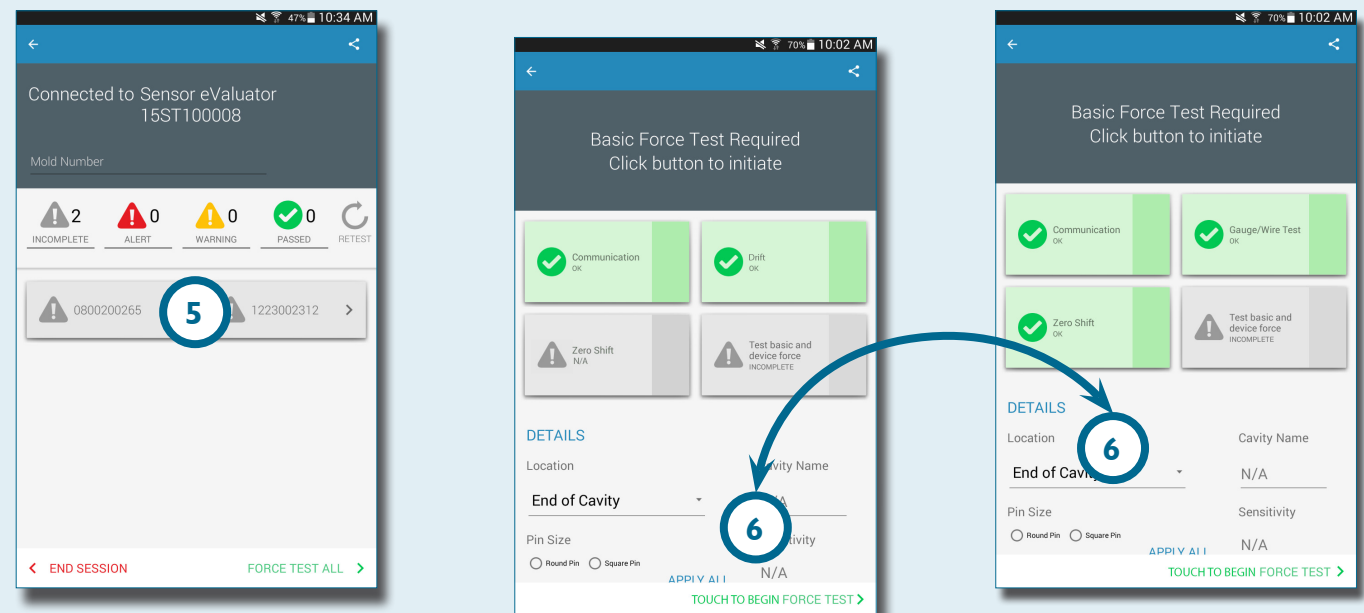
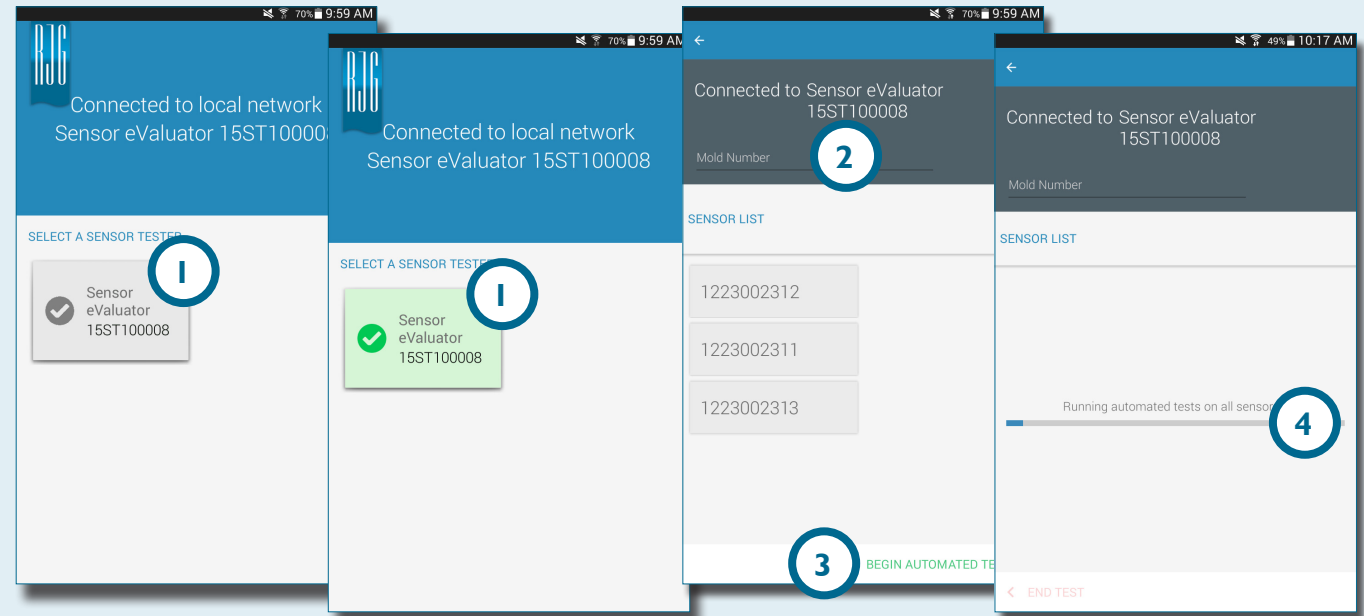
Select a **1** Sensor eValuator from the application home page with which to connect. The Sensor eValuator will be grey until selected and will turn green after selection.

If desired, enter the mold number in the **2** Mold Number field.

Select **3** Begin Automated Test to test all sensors.

The **4** Progress Bar will indicate the test progress. Wait for the test to complete.

Select a **5** sensor to enter the sensor information including Location, Cavity Name, Pin Size, Sensitivity, Sensor Model, and Sensor Serial Number in the provided **6** fields. Run a manual force test to complete testing.



SINGLE SENSOR

Select a **1** Sensor eValuator from the application home page with which to connect. The Sensor eValuator will be grey until selected and will turn green after selection.

If desired, enter the mold name in the **2** Mold Name field.

Select a **3** sensor to test.


The **4** Progress Bar will indicate the test progress. Wait for the test to complete.

Enter the sensor information below the test results, including Location, Cavity Name, Pin Size, Sensitivity, Sensor Model, and Sensor Serial Number, in the provided **5** fields. Run a manual force test to complete testing.



MANUAL SENSOR FORCE TESTS

STRAIN GAGE SENSORS

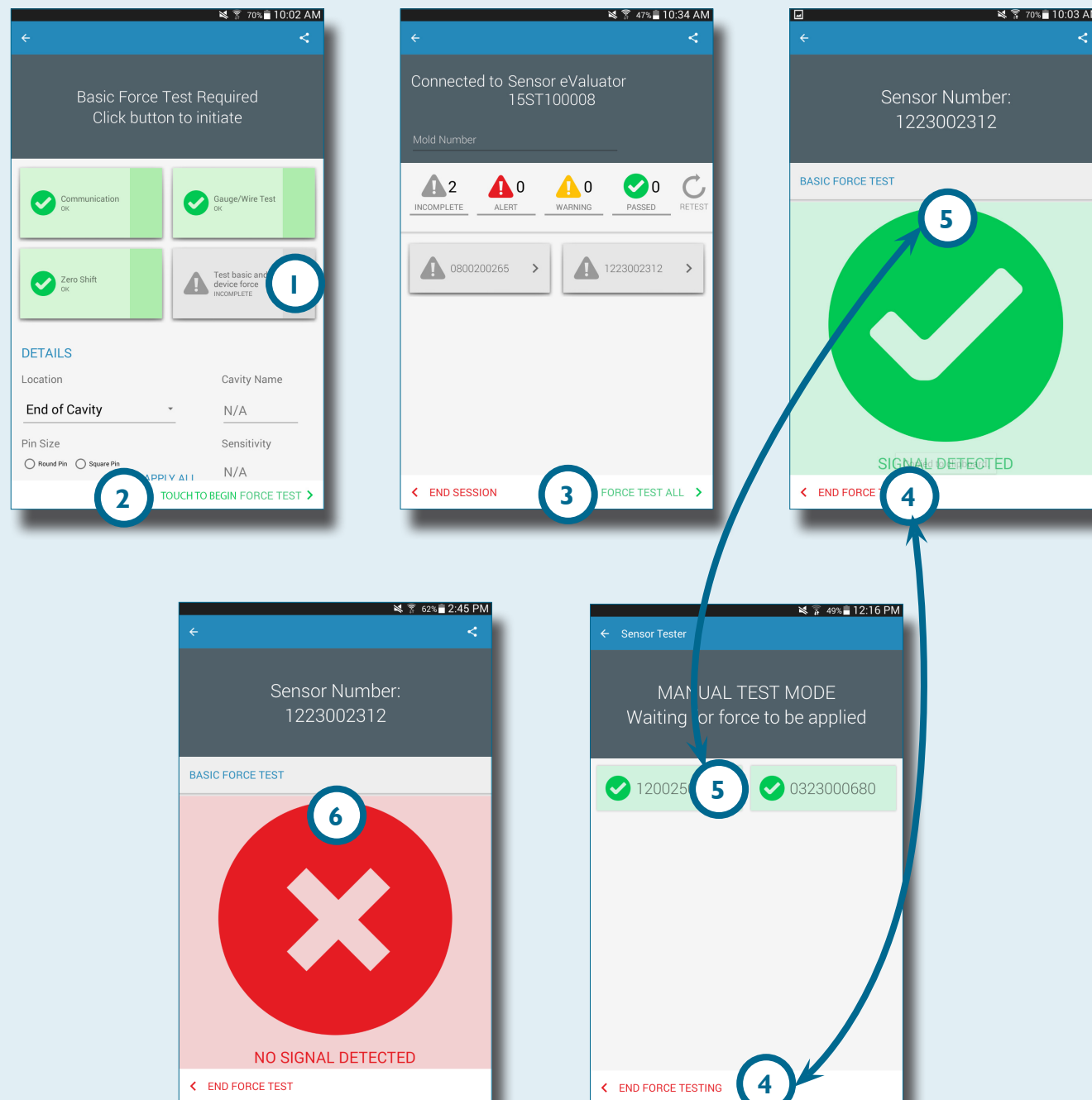
After running an automated test, **select**  one of the following:

- 1 Test Basic and Device Force
- 2 Touch to Begin Force Test
- 3 Force Test All

NOTE The application will time out if no signal is received from the sensor in a specified length of time; be ready to apply force to the sensor(s).


Select  **4 End Force Test** after the **5 Signal Detected** screen is displayed.

The **6 No Signal Detected** screen will be displayed if the test was unsuccessful. Refer to **PAGE 32** for troubleshooting.



PIEZOELECTRIC SENSORS

NOTE Do not move the Lynx cable during piezoelectric sensor testing, as it will create false test results.

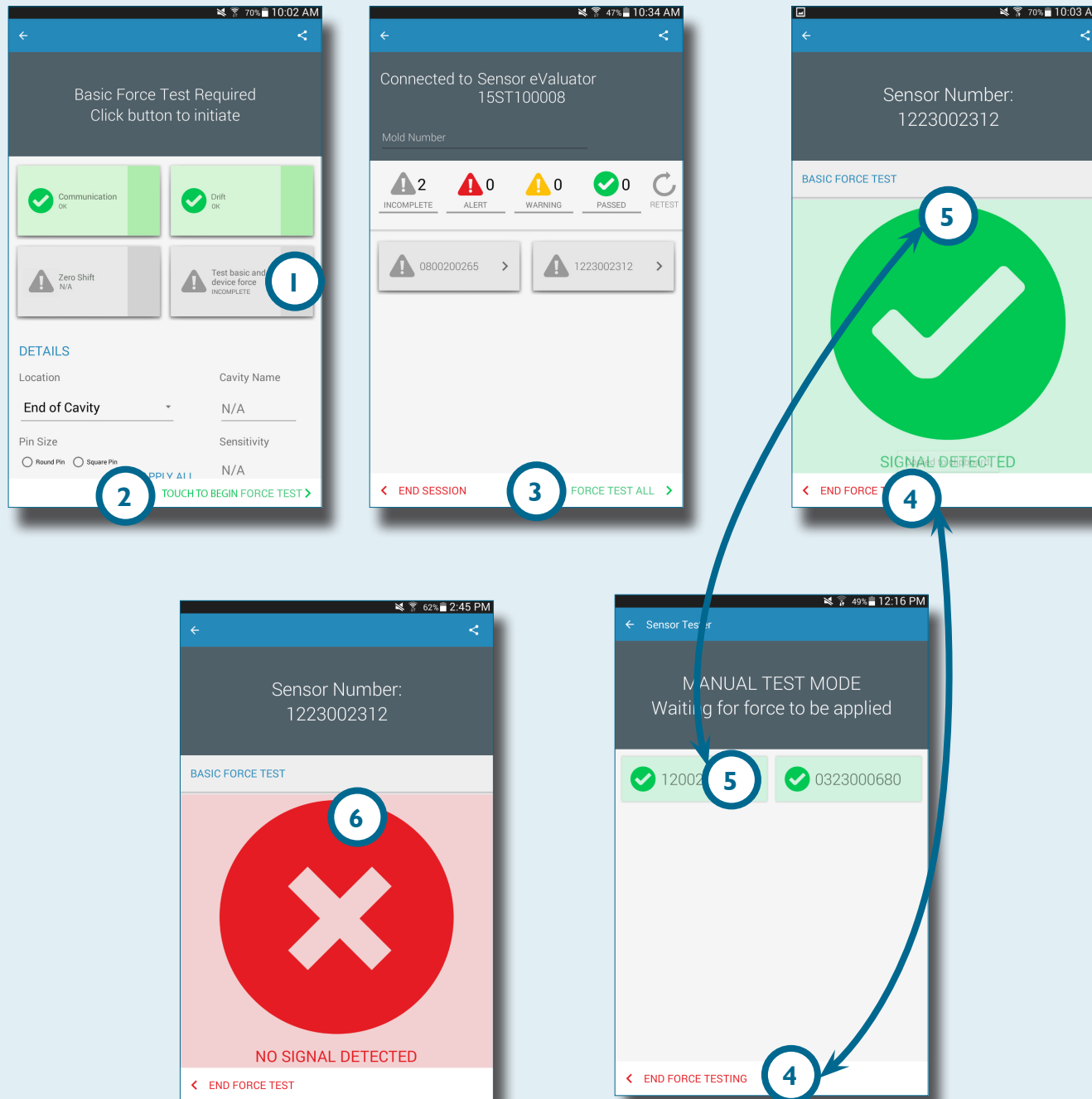
After running an automated test, **select**  one of the following:

- 1 Test Basic and Device Force
- 2 Touch to Begin Force Test
- 3 Force Test All

NOTE The application will time out if no signal is received from the sensor in a specified length of time; be ready to apply force to the sensor(s).

Select  **4** End Force Test after the **5** Signal Detected screen is displayed.


The **6** No Signal Detected screen will be displayed if the test was unsuccessful. Refer to **PAGE 33** for troubleshooting.



SENSOR TEST REPORTS

Sensor reports are automatically stored in the tablet's Device Storage/ Downloads folder.

Close the application and disconnect from the Sensor eValuator.

Select  the **1 Applications** icon from the tablet home page.


Select  **2 My Files**.

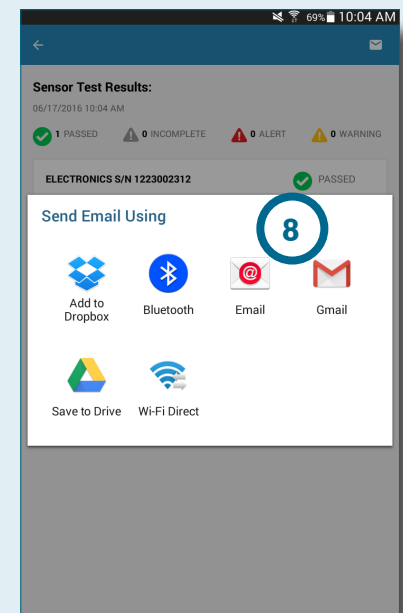
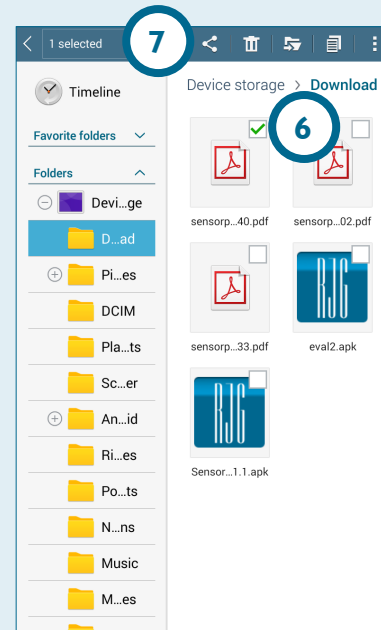
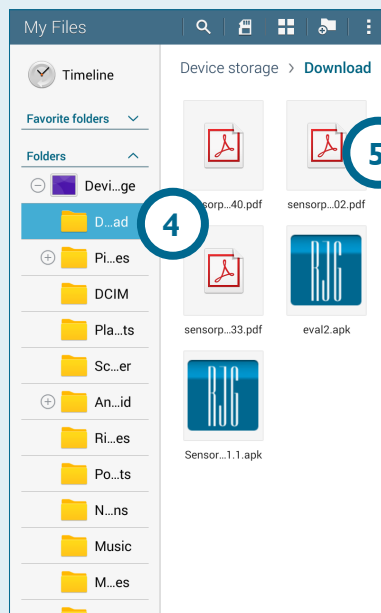
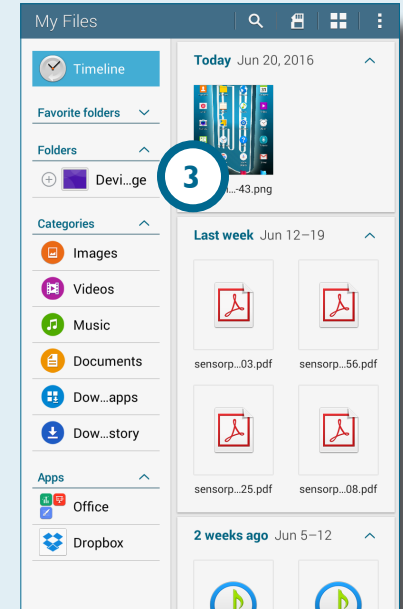
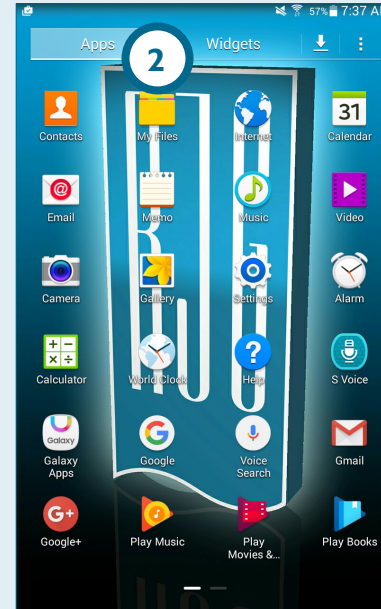
Select  **3 Device Storage**.

Select  **4 Downloads**.

Select  the desired **5 report OR**

Tap and hold a file until a **6 green check mark** appears to select that file, and then tap on other files to add them to the selection.

Select  the **7 Share** button, and then select **8 email** in the Share Via pop-up window.



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INSTALLATION AND SETUP


APPLICATION DOWNLOAD AND INSTALL FROM TABLET

Select  the **1 Applications** icon from the tablet home page.

Select  the **2 Play Store** from the list of Apps.

Enter **3 sensor evaluator** in the search bar.

Select  the **4 Sensor eValuator** application.

Select  **5 Install** from the application page.

Select  **6 Accept** from the permissions pop-up window.



APPLICATION DOWNLOAD AND INSTALL FROM COMPUTER

NOTE Google account sign-in is required to download from the Google Play Store.

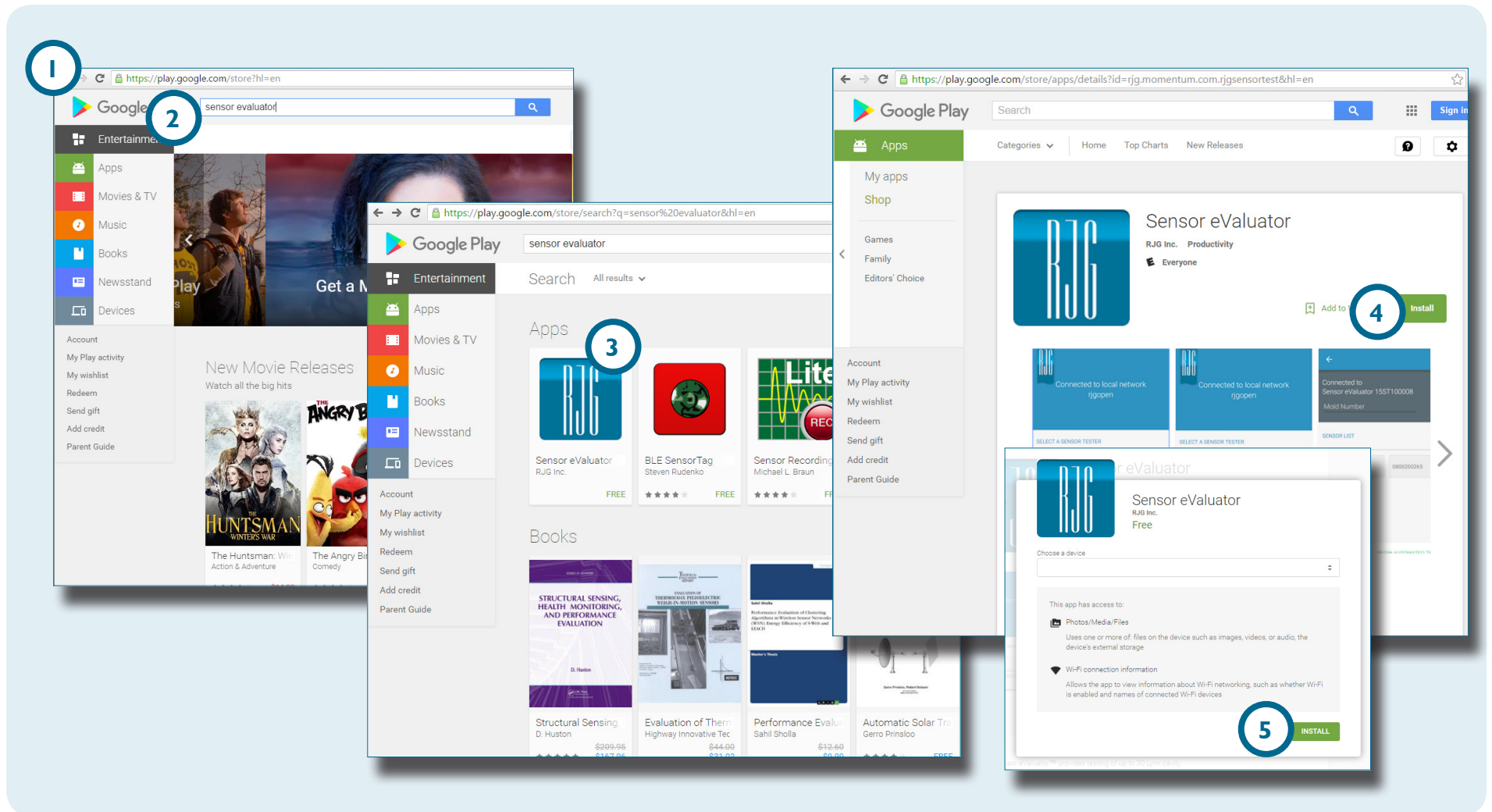
Open Google Chrome and enter the following address:

1 <https://play.google.com/store>.

Enter 2 sensor evaluator in the search bar.

Click 3 Sensor eValuator on the search results page.

Click 4 Install; select the device on which to install the application and click 5 INSTALL in the pop-up window.



REFRESH APPLICATION

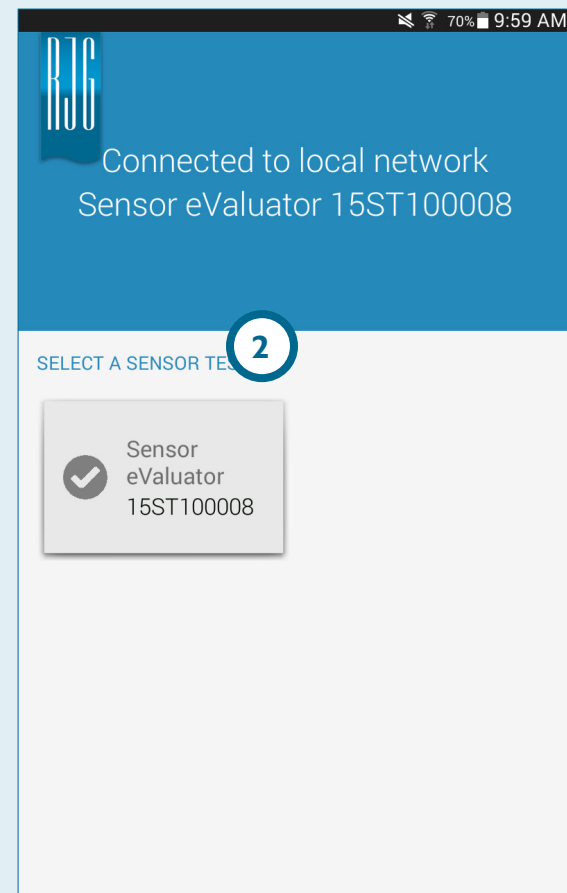
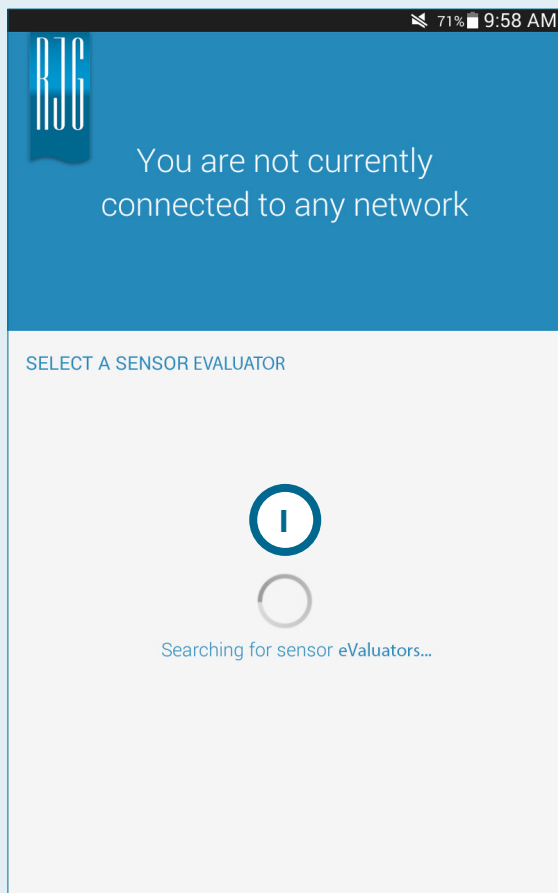
REFRESH SENSOR EVALUATOR LIST

If no Sensor eValuators appear upon application start-up, or if a recently connected Sensor eEvaluator does not appear on the list of Sensor eValuators, swipe the tablet screen in a downward motion to **1** refresh the application for any recently added or removed Sensor eValuators.


Any **2** connected Sensor eValuators will display in the window.



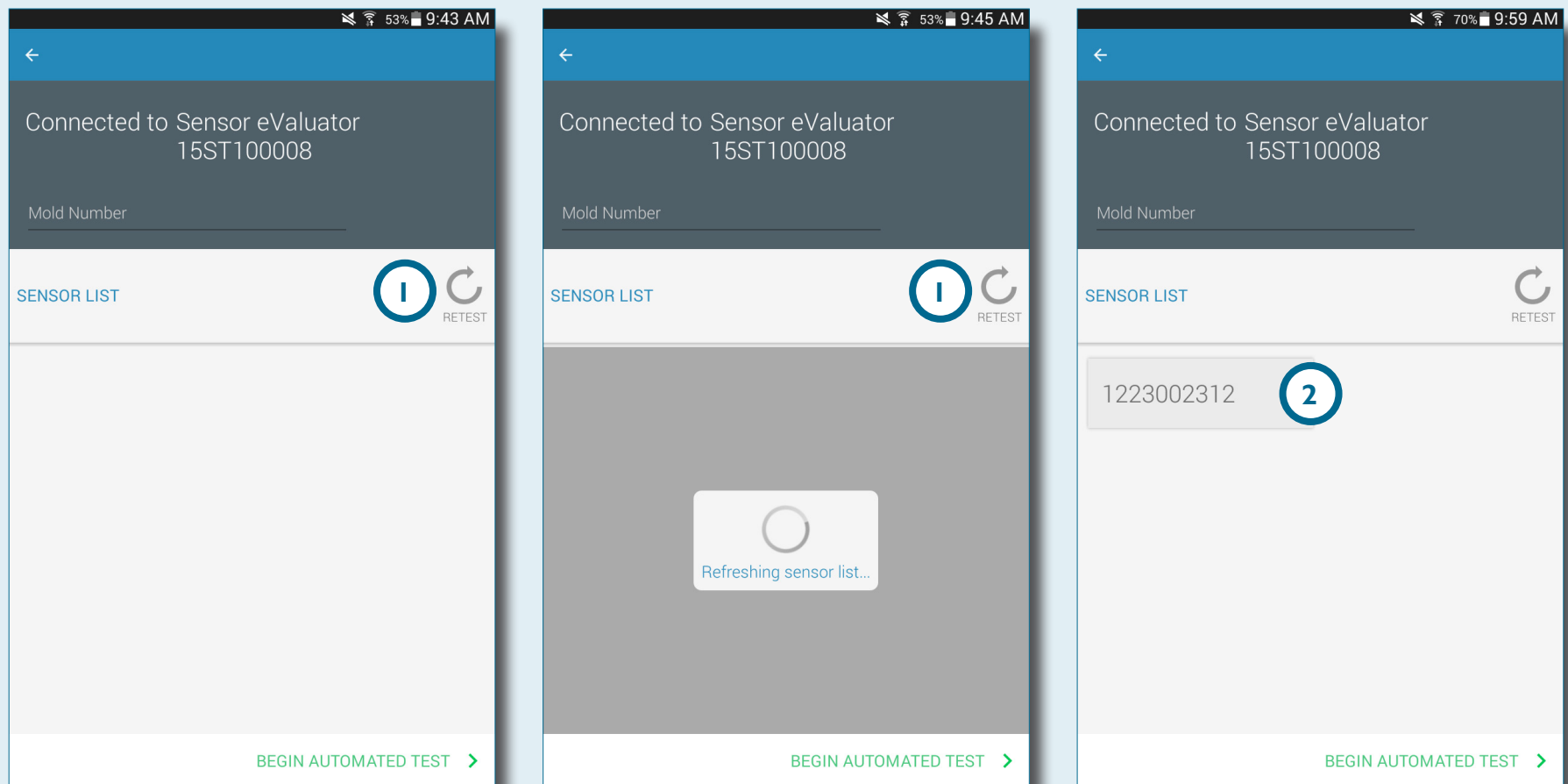
NOTE WiFi must be enabled on the tablet to connect to the Sensor eEvaluator.



REFRESH SENSOR LIST

If no sensors appear upon application start-up, or if a recently connected sensor does not appear on the list of sensors, select  **1** Retest to refresh the application for any recently added or removed sensor connections.

Any **2** connected sensors will display in the window.



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STRAIN GAUGE SENSORS

COMMUNICATION FAILURE

The Sensor eValuator lost connection to the sensor electronics:

- Replace the Lynx cable and try again.
- If a new cable does not correct the issue, the problem is most likely the sensor electronics.
- If the test fails again, replace the strain gage adapter (SG/LX....) and retest.
- If the test fails again, request an RMA for return from RJG.

GAGE/WIRE TEST FAILURE

There may be a broken wire:

- Perform a visual inspection of the sensor cable.
- If cable is okay the gage may be damaged or overloaded.
- Remove the sensor from the tool and retest the sensor. If the sensor now passes the test, check the sensor pocket installation dimensions.
- If the sensor fails again, request an RMA for return from RJG.

ZERO SHIFT FAILURE

Remove sensor from tool and retest. Failure could be caused by preload due to installation. Common causes of preload are:

- Radius in the corners of the sensor pocket.
- Improper sensor pocket depth.
- Not enough clearance above the ejector pin head.

If the sensor fails after removal from the tool, the sensor needs to be re-calibrated or replaced.

- Request an RMA from RJG.

FORCE TEST FAILURE

Tester did not detect any force being applied;

- apply pressure on pin or directly on sensor head.
- Remove the sensor from the tool and retest the sensor.

If the sensor passes, check that the pin moves freely. The pin should slide forward and backward easily. The pin should also spin easily.

- If the sensor fails again, request an RMA from RJG.

PIEZOELECTRIC SENSORS

COMMUNICATION FAILURE

The Sensor eValuator lost connection to the sensor electronics:

- Replace the Lynx cable and try again.
- If a new cable does not correct the issue, the problem is most likely the sensor electronics.
- If the test fails again, replace the strain gage adapter (SG/LX....) and retest.
- If the test fails again, request an RMA for return from RJG.

FORCE TEST FAILURE

1. Single Channel

Tester did not detect any force being applied;

- apply pressure on pin or directly on sensor head.
- Remove the sensor from the tool and retest the sensor.
- If the test fails again, remove the sensor from the tool and retest the sensor.

If the sensor passes, check that the pin moves freely. The pin should slide forward and backward easily. The pin should also spin easily.

- If the sensor fails again, request an RMA from RJG.

2. Multi Channel

Tester did not detect any force being applied;

- apply pressure on pin or directly on sensor head.
- Remove the sensor from the tool and retest the sensor.

If the sensor passes, check that the pin moves freely. The pin should slide forward and backward easily. The pin should also spin easily.

- If the sensor fails again, request an RMA from RJG.

FORCE TEST PASS WITHOUT APPLICATION OF FORCE

If force was not applied, but the test was passed, be aware that moving the piezoelectric sensor cable during the test can cause false readings. Check the sensor again without moving any of the components.

DRIFT FAILURE

1. Multi-channel

Something happened to cause a change in reading during the test. Be aware that moving the piezoelectric sensor cable during the test can cause false readings. Check the sensor again without moving any of the components.

- If the test fails a second time, start testing backwards from the mold to the electronics until drift passes.

Disconnect sensor head from I645 cable and Retest.

- If the test passes the problem is in the sensor head.

Disconnect I645 cable from PZ plate and Retest.

- If the test passes the problem is in the I645 cable.

Disconnect PZ Plate and Retest.

- If the test passes the problem is in the PZ Plate.

Disconnect piezoelectric sensor adapter cable (C-PZ/LX...) and Retest

- If the test passes the problem is in the piezoelectric sensor adapter cable (C-PZ/LX...)
- If the test fails, the problem is in the piezoelectric sensor adapter electronics (PZ/LX...)

Clean the sensor can cable connection points with an approved cleaner. Follow instructions at: https://rjginc.com/paperclip/product_downloads/547/cleaning-connectors_cables.pdf. Retest after cleaning.

- If the test fails after cleaning, request an RMA from RJG.

2. Single Channel

Something happened to cause a change in reading during the test. Be aware that moving the piezoelectric sensor cable during the test can cause false readings. Check the sensor again without moving any of the components.

- If the test fails a second time, start testing backwards from the mold to the electronics until drift passes.

Disconnect sensor head from I645 cable

- If the test passes the problem is in the sensor head.

Disconnect I645 cable from the piezoelectric sensor adapter (PZ/LXI-M) and Retest.

- If the test passes the problem is in piezoelectric sensor adapter.

Disconnect I66I cable from piezoelectric sensor adapter (PZ/LX-S) and Retest.

- If the test passes the problem is in the piezoelectric sensor adapter.

Clean the sensor can cable connection points with an approved cleaner. Follow instructions at: https://rjginc.com/paperclip/product_downloads/547/cleaning-connectors_cables.pdf. Retest after cleaning.

- If the test fails after cleaning, request an RMA from RJG.

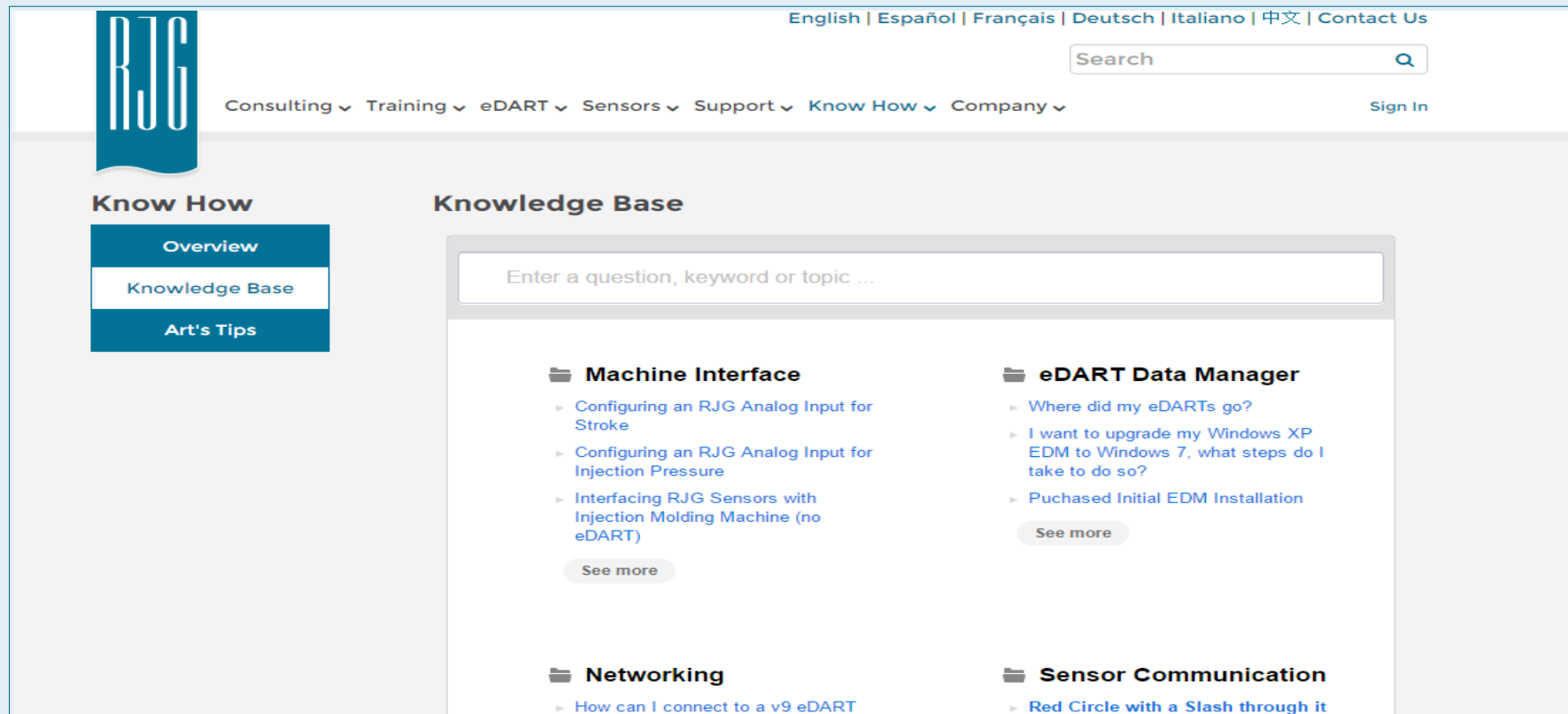
KNOWLEDGE BASE

For further information, visit

<https://rjginc.com/know-how/knowledge-base>

RJG's searchable virtual help library.

Topics include Machine Interface, eDART Data Manager, Networking, Sensor Communication, Extracting eDART Data, Advanced System Overview, Microsoft Windows, Valve Gate, System Utilities Software, Hardware, and other product-related issues.



CUSTOMER SUPPORT

Contact RJG's Customer Support team by phone or email.

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Overview

RJG, Inc. prides itself on fantastic support for our customers. We endeavor to do everything possible to ensure our customers are successful with their application.

This support page is designed to get you in contact with RJG Customer Support directly, supply the latest software upgrades for the various *eDART* System™ products, and establish a remote desktop connection with our support staff (prior arrangement with support staff is required for remote desktop help).

For application tips, self-help tools, and other online resources, visit our [know how page](#).



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