

# VCS Random Testing

## Create New Test

## Test Configuration

### Input Channels

#### Channel Type

**Control** vs. **Monitor**. When running a test, there will need to be at least one control sensor. The control sensor is used to monitor the actual vibration levels that the shaker is producing. It then sends this data to the controller so that it maintains the targeted profile. This sensor should be mounted somewhere on the shaker/slip table itself, not the Device Under Test (DUT). Monitor sensors will show the levels that the DUT itself is experiencing.

#### Measurement Quantity

Select the type of quantity that the sensor is reading. For accelerometers this will be acceleration.

#### Sensitivity

This is the output sensitivity of the sensor. This value states how many mV the sensor outputs per engineering unit of measurement. In most accelerometer cases this value will be in mV/g and can be found with the sensor.

#### Input Mode

This is how the sensor obtains its power.

## Running the Test

Now that all of the parameters for the test have been setup, the test is ready to run. Here are the final steps to start the test.

1. Press the **Connect** button to connect to the controller.
2. Press the **Run** button.
3. The **Spider Check List** will now appear. Here you can check the settings of the test and verify that all is set up properly. Press **Start** once this has been verified.
4. The Pre-Test will now begin. This will verify that the control loop is properly established and provide data that the control loop needs.
5. The test is now running

From:

<https://help.go-ci.com/> - **Crystal Instruments Help**

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