

## Experiment HP-8: The Galvanic Skin Response (GSR) and Investigation into ‘Cheating’

This iWorx lab experiment was graciously provided by Dr. Paul Wagner and Dr. Tracy Wagner, Asst. Professors, Washburn University, Topeka, KS.

*Note: These exercises are best performed in groups of 4 or 6 individuals. Plan accordingly so that each group has enough members so that some are investigators and some are suspects.*

**SEE APPENDIX FOR PERTINENT INSTRUCTIONS FOR THIS EXPERIMENT.**

### Equipment Required

PC or Mac Computer

IXTA, USB cable, IXTA power supply

iWire-B3G GSR amplifier and electrodes

PT-104 Pulse plethysmograph

Folder of 10 Photographs - include neutral and emotional photos

Directions for the Investigators and Subjects

### Start the Software

1. Click on LabScribe
2. Click Settings → Human Psychophysiology → GSR-Investigation
3. Once the settings file has been loaded, click the **Experiment** button on the toolbar to open any of the following documents:
  - Appendix
  - Background
  - Labs
  - Setup (opens automatically)

### GSR and PT-104 Setup

1. Locate the PT-104 pulse plethysmograph and plug it into the Channel A5 input of the IXTA ([Figure HP-8-S1](#)).
2. Locate the iWire-B3G galvanic skin response amplifier and GSR electrodes ([Figure HP-8-S2](#)) in the iWorx kit.
3. Plug the connector on the iWire-B3G galvanic skin response amplifier into the iWire 1 input of the IXTA ([Figure HP-8-S3](#))

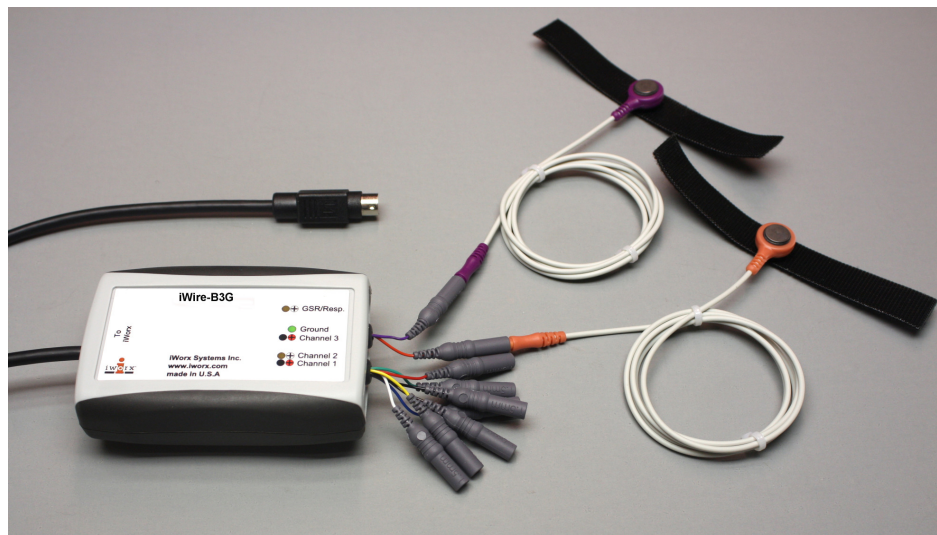
*Note: Connect the iWire-B3G to the IXTA prior to turning it on.*

4. Attach the GSR electrodes to the pointer and ring finger of the subject's hand. Make sure the fingers are not too cold or too dry.

*Note: The GSR unit is precalibrated. No other calibration is needed.*



*Figure HP-8-S1: PT-104 pulse plethysmograph.*



*Figure HP-8-S2 The iWire-B3G galvanic skin response amplifier.*



*Figure HP-8-S3: The equipment needed to record GSR. The PT-104 plugs into Channel A5.*