

## Lafayette Instrument Data Acquisition Sub Sensor (DAS) Specs

### LX4000B Specs:

- Type of circuit used:
  - GSR - Constant Current
- Measurement Units: Ohms
- Excitation:
  - GSR: 6.7 uA
- Recommended Electrode type: Solid Gel or Stainless Steel
- Electrode type used: Solid Gel or Stainless Steel Plate electrodes are standard supplied with the system.
- Recommended Electrode Placement: the volar surface of distal or medial phalanges, thenar and hypothenar surfaces of the palm, and two sites at the inner aspect of the foot, over the abductor hallucis muscle adjacent to the sole of the foot and midway between the proximal phalanx of the big toe and a point directly beneath the ankle.
- Filtering:
  - Hardware
    - 1.59 Hz Low Pass
  - Software Manual Mode:
    - 12 Hz Low Pass
    - 0.44 Hz Low Pass
  - Software Automatic Mode:
    - 0.0159 Hz High Pass, 10 Second time constant

### LX5000 Specs

- Type of circuit used:
  - GSR mode: Constant Current
  - GSC mode: Constant Voltage
- Measurement Units: Ohms
- Excitation:
  - GSR: 4uA
  - GSC: Auto-ranging- Current limited to 10uA, Voltage limited to 5 volts (mutually exclusive).
- Recommended Electrode type: Solid Gel or Stainless Steel
- Electrode type used: Solid Gel or Stainless Steel Plate electrodes are standard supplied with the system.
- Recommended Electrode Placement: the volar surface of distal or medial phalanges, thenar and hypothenar surfaces of the palm, and two sites at the inner aspect of the foot, over the abductor hallucis muscle adjacent to the sole of the

foot and midway between the proximal phalanx of the big toe and a point directly beneath the ankle.

- Filtering:
  - Hardware
    - 1.59 Hz Low Pass
  - Software Manual Mode:
    - 12 Hz Low Pass
    - 0.44 Hz Low Pass
  - Software Automatic Mode:
    - 0.0159 Hz High Pass, 10 Second time constant

## LX6

- Type of circuit used:
  - GSR mode: Constant Current
  - GSC mode: Constant Voltage
- Measurement Units: Ohms
- Excitation:
  - GSR: 4uA
  - GSC: Auto-ranging- Current limited to 10uA, Voltage limited to 5 volts (mutually exclusive).
- Recommended Electrode type: Solid Gel or Stainless Steel
- Electrode type used: Solid Gel or Stainless Steel Plate electrodes are standard supplied with the system.
- Recommended Electrode Placement: the volar surface of distal or medial phalanges, thenar and hypothenar surfaces of the palm, and two sites at the inner aspect of the foot, over the abductor hallucis muscle adjacent to the sole of the foot and midway between the proximal phalanx of the big toe and a point directly beneath the ankle.
- Filtering:
  - Hardware\* (\*Specs for LX6. I assume we are not going to worry about LX5000 and LX4000)
    - 1.59 Hz Low Pass
  - Software Manual Mode:
    - 12 Hz Low Pass
    - 0.44 Hz Low Pass
  - Software Automatic Mode:
    - 0.0159 Hz High Pass, 10 Second time constant