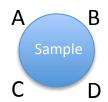
Resistivity/Hall Effect Matrix Card – Keithley 7709

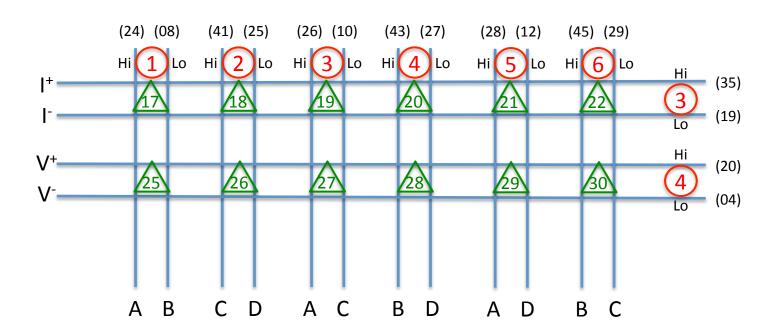
Wiring Color Code

- A Red
- B Black
- C Blue
- D Green
- I White
- V Yellow



(#) - Wiring Pin





Resistivity Measurement Sequence – R_{AB, CD}

- 1. Current Off
- 2. Short Card Close 17, 25, 26, 27, 28, 29, 30
- 3. Prepare Measurement Open 25, 27, 28, 29, 30
- 4. Current On, Delay, Measure Voltage
- 5. Current Reverse, Delay, Measure Voltage
- 6. Current Off
- 7. Short Card Close 25, 27, 28, 29, 30

Resistivity Measurement Sequence – R_{CD, AB}

- 1. Current Off
- 2. Short Card Close 17, 25, 26, 27, 28, 29, 30
- 3. Prepare Measurement Close 18
- 4. Prepare Measurement Open 17, 26, 27, 28, 29, 30
- 5. Current On, Delay, Measure Voltage
- 6. Current Reverse, Delay, Measure Voltage
- 7. Current Off
- 8. Short Card Close 17, 26, 27, 28, 29, 30
- 9. Finish Open 18

Resistivity Measurement Sequence – R_{AC,BD}

- 1. Current Off
- 2. Short Card Close 17, 25, 26, 27, 28, 29, 30
- 3. Prepare Measurement Close 19
- 4. Prepare Measurement Open 17, 25, 26, 27, 29, 30
- 5. Current On, Delay, Measure Voltage
- 6. Current Reverse, Delay, Measure Voltage
- 7. Current Off
- 8. Short Card Close 17, 25, 26, 27, 29, 30
- 9. Finish Open 19

Resistivity Measurement Sequence – R_{BD,AC}

- 1. Current Off
- 2. Short Card Close 17, 25, 26, 27, 28, 29, 30
- 3. Prepare Measurement Close 20
- 4. Prepare Measurement Open 17, 25, 26, 28, 29, 30
- 5. Current On, Delay, Measure Voltage
- 6. Current Reverse, Delay, Measure Voltage
- 7. Current Off
- 8. Short Card Close 17, 25, 26, 28, 29, 30
- 9. Finish Open 20

Hall Effect Measurement Sequence – R[±]_{AD,BC}

- 1. Current Off, B-Field Off
- 2. Short Card Close 17, 25, 26, 27, 28, 29, 30
- 3. Prepare Measurement Close 21
- 4. Prepare Measurement Open 17, 25, 26, 27, 28, 29
- 5. Current On, B-Field On, Delay, Measure Voltage
- 6. Current Reverse, Delay, Measure Voltage
- 7. B-Field Reverse, Delay, Measure Voltage,
- 8. Current Reverse, Delay, Measure Voltage
- 9. Current Off, B-Field Off
- 10.Short Card Close 17, 25, 26, 27, 28, 29
- 11.Finish Open 21

Hall Effect Measurement Sequence – R[±]_{BC,AD}

- 1. Current Off, B-Field Off
- 2. Short Card Close 17, 25, 26, 27, 28, 29, 30
- 3. Prepare Measurement Close 22
- 4. Prepare Measurement Open 17, 25, 26, 27, 28, 30
- 5. Current On, B-Field On, Delay, Measure Voltage
- 6. Current Reverse, Delay, Measure Voltage
- 7. B-Field Reverse, Delay, Measure Voltage,
- 8. Current Reverse, Delay, Measure Voltage
- 9. Current Off, B-Field Off
- 10.Short Card Close 17, 25, 26, 27, 28, 30
- 11.Finish Open 22