

M.M Ground Resistivity Instrument – Survey Prompt Sheet

RECORD refers to a written note, preferably on a purpose-made form.

ITALIC..... is an instrument switch, button, sounder or display.

SURVEY GRID SET UP

1. **RECORD SITE NAME, LOCATION, SITE CODE, SURVEY REFERENCE CODE, GROUND CONDITIONS, TIME, DATE, AND OTHER RELEVANT INFORMATION** Decide the grid block position/orientation, interval (usually 1x1m). **RECORD INTERVAL.**
2. Define baseline with pegs/ranging poles. Locate from best, permanent features in vicinity.
3. Choose the grid block size (30x30m is typical).
4. Lay two parallel survey tapes (up to 30m apart) at 90° to baseline along the grid edges.
5. Choose one corner as the origin. **RECORD ORIGIN POSITION AND GRID ORIENTATION**
6. Stretch the marked guide rope taut between the tapes with a (1m interval) mark aligned on each tape's zero measurement.

INSTRUMENT SET UP

1. Insert reference probes 5m outside the grid on the centre line of one side. **RECORD POSITION AND DISTANCE FROM GRID.**
2. Unreel the probe lead from the reference probes to the origin. Plug in reference probe (yellow and black plugs). Plug the other end of the lead into the instrument connector (yellow and black sockets). Plug the moving probes into the instrument connector (green and white plugs and sockets).
3. Control/logger box **ON**. Initial settings: ***CURRENT*** to 1.0mA, ***GAIN*** to 10, ***METER*** to 2V, ***FILTER*** to Fast. Insert moving probe tips into ground at the origin, parallel to tapes on the inside of the grid. **CONFIRM *red Fault led* off, meter between 0.1 and 1.999 and steady (+- 1-2digits), *green Ready led* on.** IF NOT, see full instructions.

RECORD DATA (MANUAL MODE)

1. Press ***START*** (*beep*), press ***SAMPLE*** (*beep*, pause, *doublebeep*). After *doublebeep*, move to next mark, insert probe tips, repeat ***SAMPLE***, etc. along the 'out' side of the rope.
2. At end of row, press ***EOR*** (*beep*) after last ***SAMPLE***.
3. Turn round, press ***START*** (*beep*), ***SAMPLE*** readings on 'return' side of rope.
4. At end of row, press ***EOR*** (*beep*).
5. Move guide rope two grid intervals along the tapes (normally 2m).
6. Repeat from 10. until grid block is complete ending on the 'out' side of the last row.
7. Press ***EOR*** (*beep*), ***START***(*beep*) in sequence two or more times. Press ***STOP***.
8. Repeat 5 to 16 for the next block or turn off instrument.