OhmPi monitoring installation checklist

Date e.g YYYY-MM-DD	
Installing team / installer name(s)	
Location e.g. Rocherfort (BE), 54.2223, 3.4423	
OhmPi name register your ohmpi on https://ohmpi.org	
OhmPi config e.g. mb2024+4*mux2023+dph5005	

Prior to field installation (in the lab)

☐ **Measurement board**

☐ Continuity check (SC checks) (power off)
☐ Voltage check (power on)
☐ Check shunt resistor, board version and values in config.py
☐ Resistance check on reference resistor board with quad [0,0,0,0]

☐ **Multiplexer board**

☐ All role cables (A, B, M, N) wired to right board/connector and MUX boards addresses match those in config.py
☐ Continuity test (OhmPi.test_mux())
☐ Resistance check on reference resistor board with reference_sequence file

In the field (system not powered)

☐ Immediate surrounding free of power sources that could affect the system
  e.g. generator, high voltage line, etc.
☐ Cables firmly connected to screw terminals (gently pull wires to check connections)
☐ Components firmly inserted in their socket (e.g. Traco power, MCP23008, Current 7 click etc.)
☐ Metallic enclosure wired to ground
☐ System protected from rainfall/sun and humidity
  e.g. sun shade, silicagel, water tight spray, etc.
☐ Charged batteries
☐ Decoupled solar charging system from battery when measuring

Power the system

☐ Software tests (OhmPi.test())
☐ Resistance check on reference resistor board with reference_sequence file

Connect your electrode arrays

☐ Contact resistance check
☐ Sequence run
☐ Current does not reach the limit of 4800 / 50 /shunt_value mA
  e.g. for a shunt of 2 Ohm, this means a limit of 48 mA
☐ Full-waveform check for noise or strange decay (OhmPi.plot_last_fw())

☐ **Installation completed**