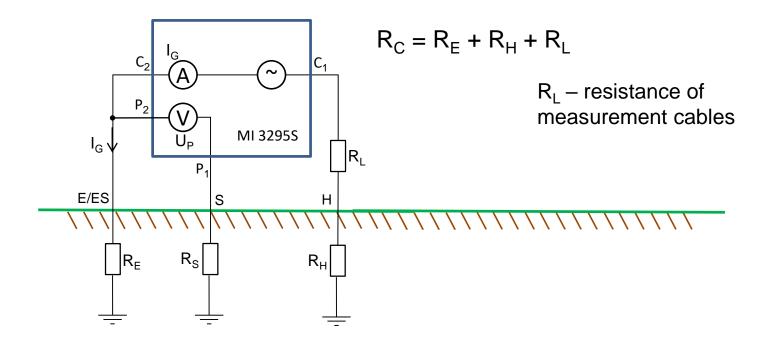
How to establish the minimum test conditions for measurements with MI 3295

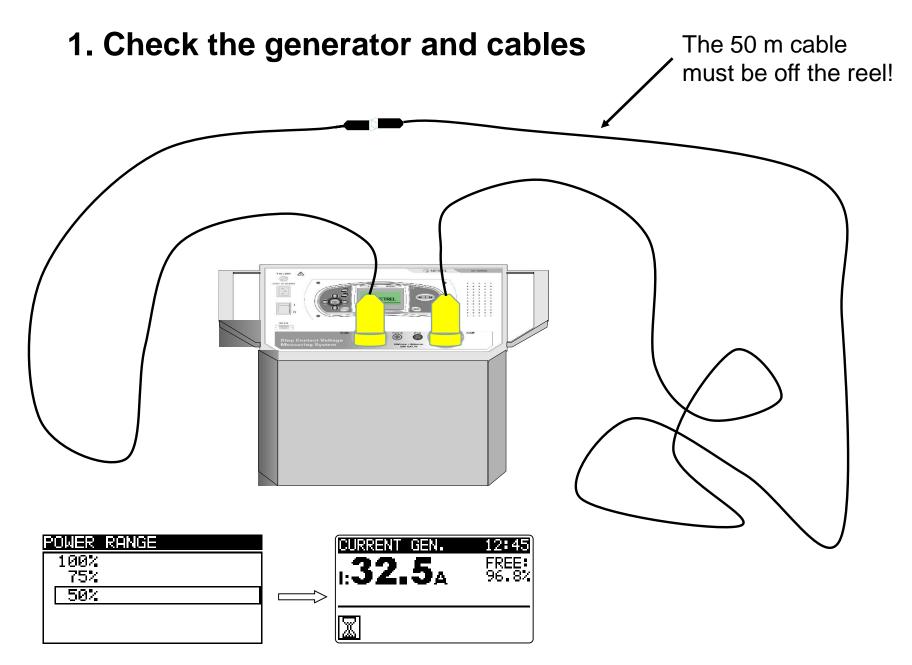
MI 3295S Limits

- Earth resistance measurement: Maximum resistance of the R_C circuit is 2 kΩ Maximum test current is 7,5 A
- Step &Touch measurement: The minimum test current for the is 0,2 A Maximum resistance of the R_C circuit is 275 Ω Maximum test current is >55 A

Procedure

- Check the generator and cables
- Check the earth resistance R_H of auxiliary probe
- Check the contact at E/ES point

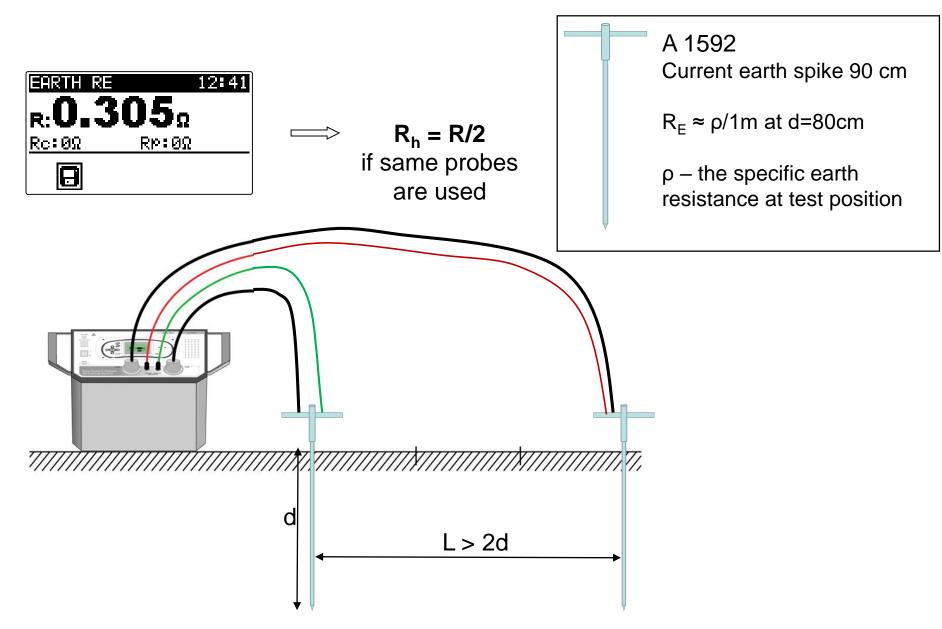


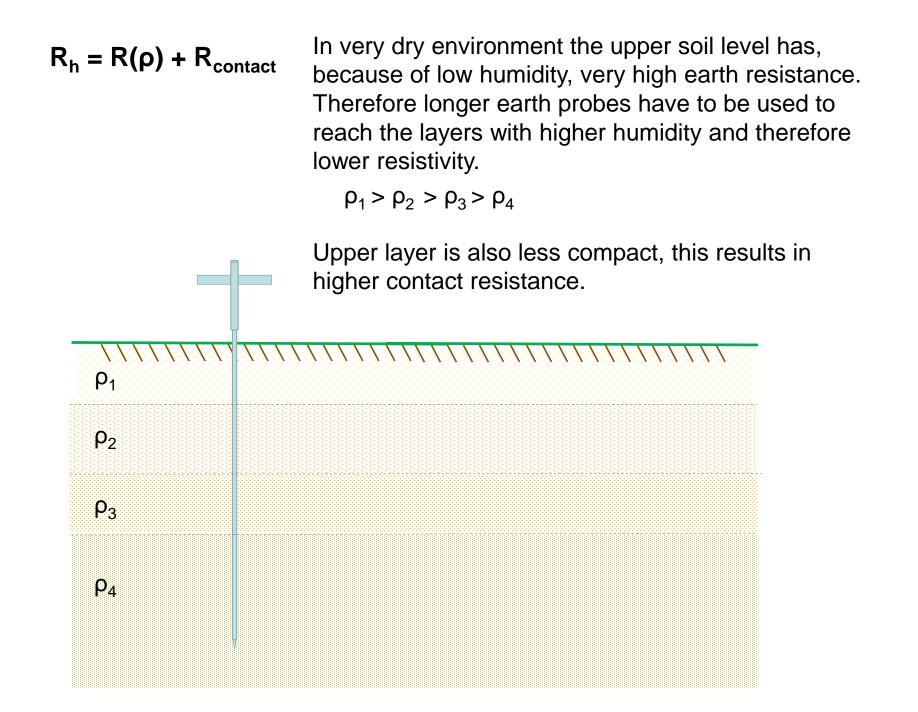


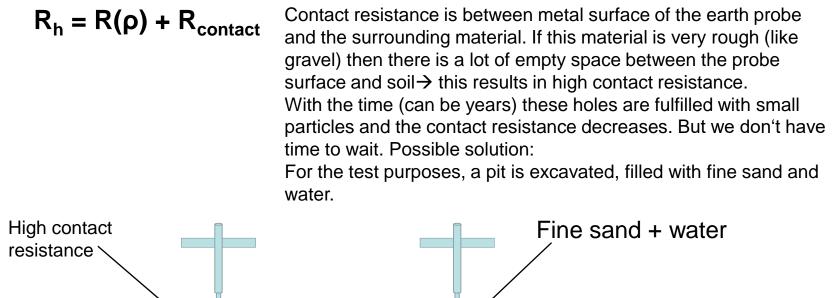
With 100% power more than 50 A will be generated.

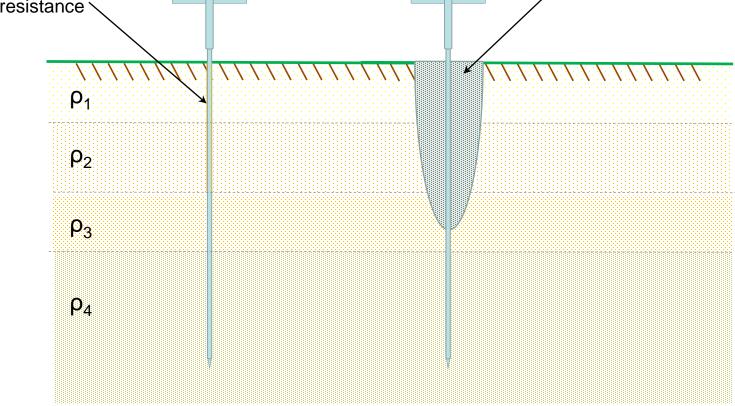
2. Check the earth resistance R_H of auxiliary probe

You can use MI 3295S or any other earth resistance meter

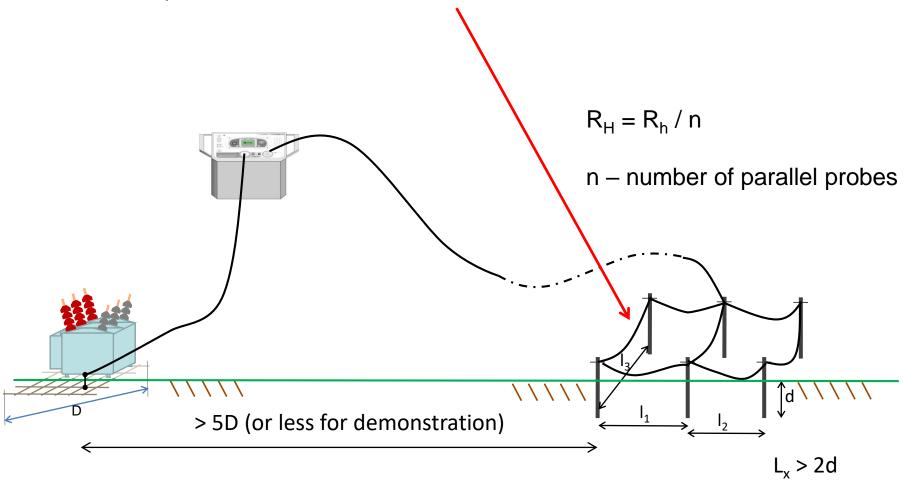


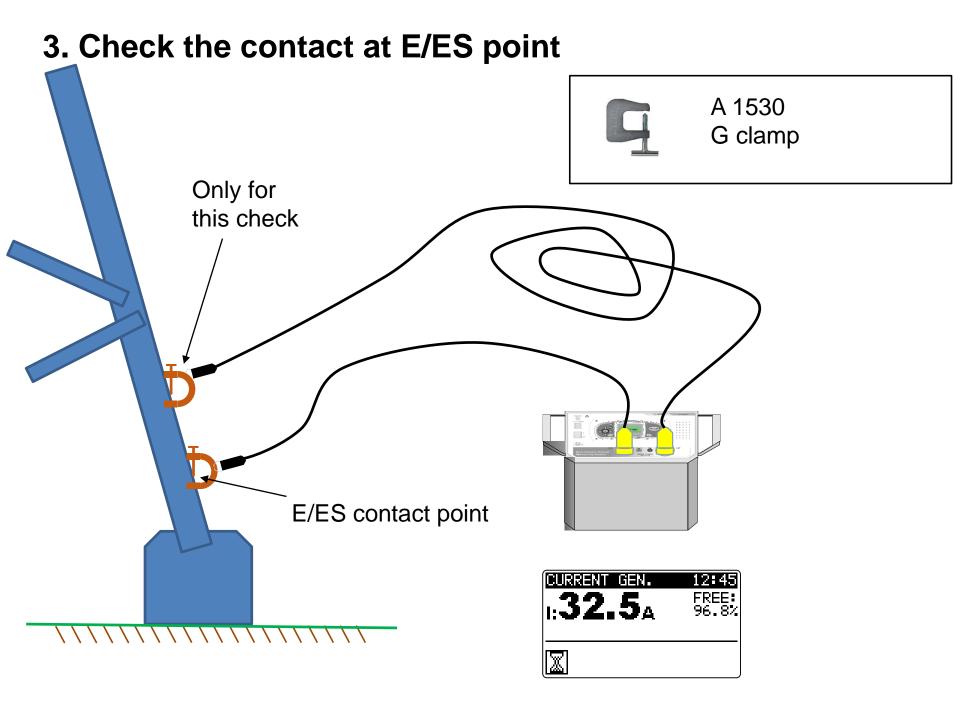






For step & touch voltage measurement the $R_{C_{MAX}}$ is 275 Ω and if the minimum test current of 200mA can't be reached with one auxiliary probe, multiple probes connected in parallel have to be used .





Alternative solution for testing bigger meshes



DANGEROUS METHOD !!!

Only for authorized and qualified personnel!

There must be no active parallel transmission lines which can cause high open circuit voltages and high short circuit currents.

Additional safety measures should be taken: surge protection devices and dual guarding (on tested side guarding must be disconnected during the measurement)

