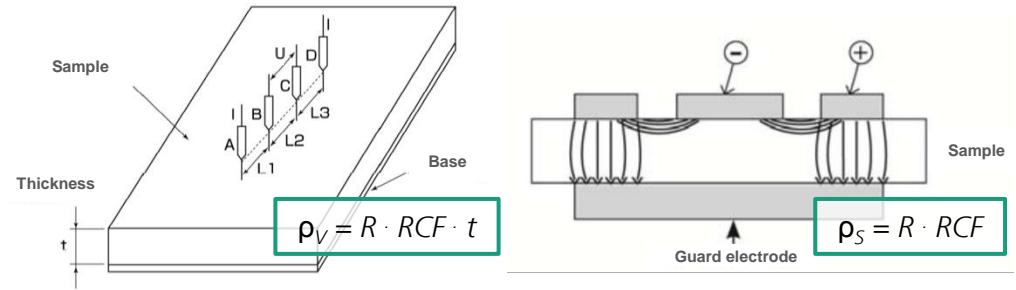


Resistivity Meters Loresta-GX and Hiresta-UX

Technical data

- Specific electrical resistivity and specific electrical conductivity are material parameters
 - Resistivity Correction Factor RCF compensates changes in size and measurement position
 - calculation of RCF is integrated
- Measurement range divided by method :
 - Loresta-GX: 10^{-4} to $10^7 \Omega$ (constant current)
 - Hiresta-UX: 10^3 to $10^{14} \Omega$ (constant voltage)



Measurement principle for determination of specific volume resistivity ρ_v (Loresta-GX, left) and specific surface resistivity ρ_s (Hiresta-UX, right)

Fields of use / applications

- quality control of welded and mechanical joints
- determination of characteristic values for thermally and cold gas sprayed coatings
 - e.g. correlation of conductivity or resistivity to other coating properties
- support in failure analyses

Measuring equipment

- Loresta-GX with ASP Probe e.g. for use with industry standard JIS K 7194 as well as PSP Probe for small specimens and thin coatings
- Hiresta-UX with URS Probe for use on ceramics



Measuring the specific electrical conductivity of a metallic coating



Determination of the specific surface resistivity of a ceramic sample