

4215-CVU Capacitance Voltage Unit

NEW FEATURES

More Frequencies: 1kHz to 10MHz with 1kHz steps

Frequency Sweeps: Log, Linear, List

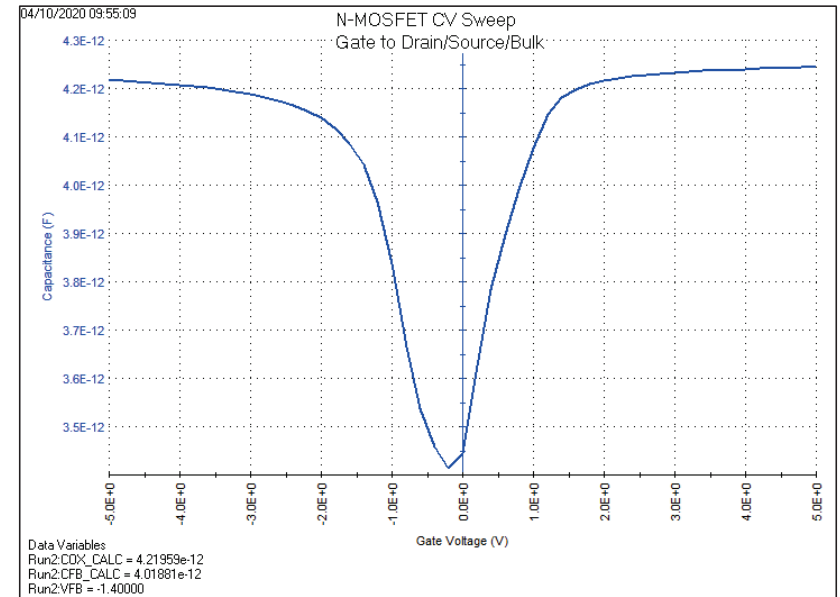
AC drive voltage: 10mV to 1V rms

New Parameter: Y, Admittance

New Filter setting

New CVU user library

Compatible with existing 4210-CVU tests and projects



Why are these new features important to customers?

New CVU Features	Benefits and Apps
Higher AC Drive voltage, (1V AC rms)	• Enables more sensitive, quieter C-V measurements • Accurate 1fF (1E-15 F) measurements • Quieter measurements are important for applications, such as doping profile, that require taking the derivative of the capacitance
More Frequency Steps (10,000)	• Enables customers to see resonance in C-f sweeps due to either external interference or device • Helps to determine optimal test frequency for C-V measurements
Log f sweeps (new feature)	Enables customers to plot the Impedance vs log f which is very common for many applications including organic FETs, traditional semi devices, electrochemistry apps
AC drive voltage sweep (UTMs)	Plotting capacitance as a function of AC drive voltage enables the customer to derive certain device parameters such as defect density of a solar cell

