Humidity Sensitivity

%RH conversion:

%RH = (\ln(C_X - C_0) - of1) / sl1

- \(C_X\) = measured capacitance
- \(C_0\) = 4505
- of1 = constant from linear plot (-0.07135)
- sl1 = slope from linear plot (0.08481)

Humidity Sensitivity Linear Fit

\(\ln(C_X)\) vs %RH

\(\ln(C_X - C_0)\) vs %RH
Temperature Sensitivity

Output Voltage (V)

Temperature (°C)

-50 -30 -10 10 30 50 70 90 110 130 150

0.8 0.9 1.0 1.1 1.2 1.3

0.2 mA 0.3 mA 0.4 mA

Temperature Sensitivity graph showing the relationship between output voltage (V) and temperature (°C) for different currents (0.2 mA, 0.3 mA, 0.4 mA).