



Figure 5

(a)

A hygrometer digitizer has 0.3% accuracy, but the sensor must float off-ground (a). OSC₁ drives an RH-sensor-based charge pump, producing a ramp at IC₁ (Trace B). IC₁'s Q output biases Q₁ to reset the ramp (Trace C), and the frequency output at Q̄ varies with humidity (b).

- A (OSC₁ OUTPUT, 5V/DIV)
- B (IC₁ OUTPUT, 1V/DIV)
- C (IC₂ Q OUTPUT, 5V/DIV)
- D (IC₂ -INPUT, 5V/DIV)

