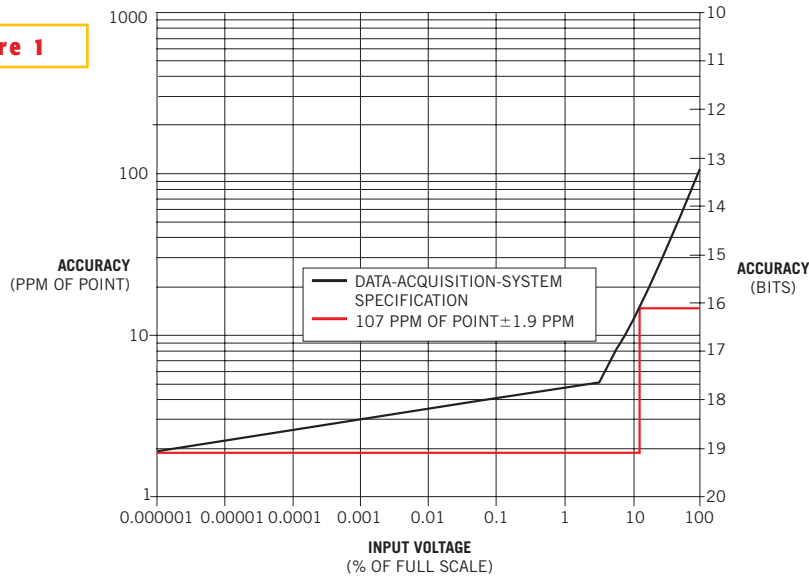


Figure 1



Using a programmable-gain amplifier ahead of an ADC increases the accuracy of a 16-bit ADC to 19 bits.