

Connecting a 4-20mA sensor to a Graphtec GL-800 Voltage Logger

Many popular industrial sensors available today output a standard 4-20mA current signal. These type of sensors include pressure transducers, level meters, flow meters and many others.

Since the GL-800 only accepts voltage inputs, you cannot connect a 4-20mA sensor directly to the logger. The output signal needs to be accurately converted from current to voltage. This is done with a 250 Ω precision shunt resistor.

A 250 Ω resistor will, with a 4-20mA current source, produce voltages in the 1V (4mA) to 5V (20mA) range. Configure the input voltage range on the GL-800 for 1 to 5 volts and it ready to start capturing data.

