

Output Signal Comparison

Low level signal

Millivolt (mV)

Ratiometric to supply voltage

Fast Response time - DC to 5Khz

Need High Load Impedance - >100K Ohms

Common millivolt outputs

- 3mV/V - Bonded Foil Strain Gauge
- 5mV/V - Thick Film Strain Gauge
- 10mV/V - AST Standard
- 20mV/V - Optional with Higher Tc Zero/Span

Amplified

Voltage - Common features of voltage outputs are low current consumption and a faster response time than current outputs

- 0.5-4.5V output signal
 - Ratiometric to supply voltage (5VDC)
 - Common in automotive applications
- 0-5V, 0-10V Output
 - Available with 3 and 4 wire hook up
 - Fixed output
 - Common in Europe
 - Good for distances up to 20 ft
- 1-5V, 1-6V, 1-10V
 - Available with 3 and 4 wire hook up
 - Fixed output
 - Common in U.S.
 - Good for distances up to 20 ft
 - Live "zero"

Current

- 4-20mA two wire [loop powered]
 - Ideal for long transmissions
 - Operates from 10 to 28 VDC supply voltage
 - Ideal for noisy environments
 - Universal use

Frequency

- 1-6kHz
- Ideal for Micro-controllers and PLC's
- Good for distances up to 50 ft
- Analog signal in digital form