



**Custom Electronics Systems, Inc.**  
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## **Draft Range Transmitter (CES 447)**

### ***Features:***

- Senses draft range (i.e. low-flow) differential pressure between air and other gasses.
- Optional Flow Measurement (i.e. Integral Square Root Function).
- Outputs a Current Signal (for voltage output applications check out the CES 450)
- Ultra Low Pressure - Full Scale (i.e. maximum pressure ranges) between 0.1 - 55.0" of H<sub>2</sub>O
- Guaranteed Accuracy within 0.75% of the current reading. ???
- Immune to EMI / RFI (i.e. electrical and radio interference) with proper installation.
- Cost Effective
- Industry leading 6 Year Warranty

### ***Example Applications:***

- HVAC Systems - Flow Stations
- Laboratories & Clean Rooms - Air flow and pressure monitoring
- Pharmaceuticals - Fume hood airflow sensors
- Any Application where Air or Gas flow needs to be precisely monitored.

### ***Description:***

This draft range transmitter is perfect for any application which requires the precision measurement of differential pressure between air and other gasses. This instrument can be calibrated to provide Full Scale (i.e. maximum pressure) readings between 0.1 - 55.0" of H<sub>2</sub>O. This device is loop powered and converts the differential pressure signal received from the air / gas sources into a 4-20 mA signal.

## **Complementary Products:**

Flow Stations, Controllers, or Pitot Tubes

For even greater accuracy and repeatability consider an Autozero Transmitter.

## **Specifications:**

Hysteresis and Repeatability:  $\pm 0.05\%$

Non-linearity:  $\pm 0.5\%$  BFSL Max.,  $\pm 1\%$  BFSR

Pressure Range: 0.1 - 30" H<sub>2</sub>O

Proof pressure: 3.5 PSI

Burst pressure: 7 PSI

Line Pressure: 30 PSI Max

Output: 4 - 20 mA

Supply Voltage: 13 - 35v DC

Supply Configuration: 2 wire loop powered

Maximum Load: 50 x's supply voltage -650

Operating Temperature: 0 - 600° C

Thermal Zero Shift:  $+0.08\%$  ° C

Thermal Span Shift:  $+0.08\%$  ° C

Operating Life: Within specifications after 10 million full scale cycles