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).
- Ultra Low Pressure - Full Scale (i.e. maximum pressure ranges) between 0.1 - 55.0" of H20
- Guaranteed Accuracy within 0.75% of the current reading. ???
- Immune to EMI / RFI (i.e. electrical and radio intereference) 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 H20. This device is loop powered and converts the differential pressure signal recieved from the air / gas sources into a 4-20 mA signal.

We guarantee that this instrument to be accurate within 0.75% of the current reading. Note that other companies merely guarantee their accuracy percentage

at the instruments maximum pressure, leaving you with a less accurate instrument than you thought (read more). You simply won't find another instrument that is as accurate as ours in it's price range. With normal use, this instrument is guaranteed to be accurate and repeatable even after 10 million readings, guaranteeing you years of faithful service at an affordable price.

Complementary Products:

Flow Stations, Controllers, or Pitot Tubes
For even greater accuracy and repeatability consider an Autozero Transmitter.

Specifications:

Hysteresis and Repeatability: ±.05%
Non-linearity: ±.5% BFSL Max., ±1% BFSR
Pressure Range: 0.1 - 30" H20
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: +.08% ° C
Thermal Span Shift: +.08% ° C
Operating Life: Within specifications after 10 million full scale cycles