



**Custom Electronics Systems, Inc.**  
455 Forum Parkway  
Rural Hall, NC 27045

# Pressure Drop and Ventilation Tester (CES 508)

## ***Features:***

- Measures pressure drop across a porous test sample. Initially designed for cigarettes but adaptable to any porous material.
- Accurately maintains and measures user settable air flow from 0-100.0 ml/s
- Automatic pressure drop compensation (i.e. accounts for absolute pressure variations in the environment and test equipment)
- Accurately measures flow  $\pm .75\% \pm \text{LCD}$
- Accurately measures ventilation (0-100 %)
- Auto-zero for flow, ventilation, and pressure drop.
- Industry leading 6 Year Warranty



## ***Description:***

This instrument was designed and manufactured to meet your company's need to accurately and repeatably measure total flow and ventilation flow through a test sample cigarette in a temperature controlled environment.

Two of the key innovations in the CES 508 is its ability to automatically compensate for absolute pressure variations and performs an auto-zero before every test.

## **Specifications:**

### *General*

Size: 318 mm (h) x 534 mm (w) x 445 mm (d)

### *Total Flow*

Flow Sensor: NIST Traceable w/Input Pressure Compensation

Flow Indicator: 3.5 digit LCD display, 13mm digit height, 3 readings / sec

Flow Zero: Automatic

### *Low Flow Range*

Read Out: 0-19.99 ml/s

Control Range: 2-19.99 ml/s

### *High Flow Range*

Read Out: 0-100.0 ml/s

Control Range: 20-100.0 ml/s

### *Flow Control*

Flow Control: Automatic (user settable)

Flow Accuracy:  $\pm .75\% \pm \text{LCD}$

Flow Control Zero: Automatic

### *Pressure Drop*

Drop Pressure Zero: Auto

Pressure Drop Range: 0-1200 mm / H<sub>2</sub>O

Low Pressure Drop Range: 0-199.9 mm of H<sub>2</sub>O

High Pressure Drop Range: 0-1200 mm of H<sub>2</sub>O

Drop Pressure Indicator: 3.5 digit LCD display, 13mm digit height, 3 readings / sec

### *Ventilation*

Ventilation Pressure Indicator: 3.5 digit LCD display, 13mm digit height, 3 readings / sec

Flow Sensor: NIST Traceable w/Input Pressure Compensation

Low Ventilation Range: 0-19.99 ml/s

High Ventilation Range: 0-100.0 ml/s