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AIRDATA™ MULTIMETER ADM-860

ELECTRONIC MICROMANOMETER

AIR FLOW • VELOCITY • PRESSURE • TEMPERATURE



- AIR BALANCE MODEL
- MEMORY AND AVERAGING
- VELGRID AND AIRFOIL
- VELOCITY AND PRESSURE
- FLOW AND TEMPERATURE
- SUPPLY AND EXHAUST
- 25 TO 2500 CFM RANGE
- AIR DENSITY CORRECTED
- AUTO RANGE AND ZERO
- ENGLISH AND METRIC

ADM-860 AIRDATA MULTIMETER

The **ADM-860** AirData Multimeter was developed for the unique needs of the air balancing specialist. The keypad has been simplified for rapid selection of routine air balance functions. The versatile **VelGrid** and **AirFoil** Probe are included in this meter kit and provide improved speed and flexibility in the measurement of air flows and velocities. Memory, with automatic average and total, reduces time spent recording data and performing calculations.

The 16 point **VelGrid** provides repeatable velocity readings at HEPA filters, bio-exhaust hoods, coil banks and many more general face velocity applications.

A standard **pitot tube**, or the straight **AirFoil** Probe can be used for duct traverses and air velocity readings at exhaust hoods and laminar flow applications. No leveling, zeroing or range selection is necessary.

The **memory** function allows the sequential storage and recall of up to 100 measurements, with display of the sum and average at any point. This is a real time saver for duct traverses.

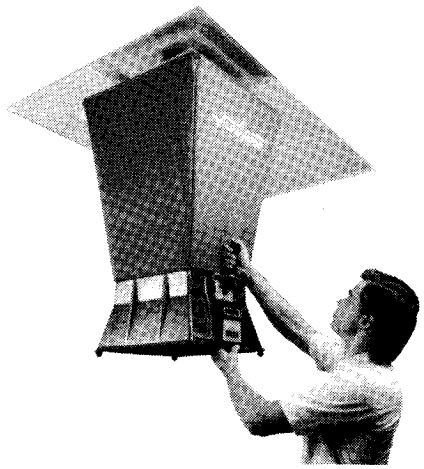
Velocity and flow readings are **local density corrected** to account for variations in temperature and barometric pressure.

Differential pressures can be measured from 0.0001 to 60.00 in. wc. for ducts, filters, fan and room pressures.

The Shortridge Instruments AirData Multimeter design combines **digital electronics** with convenience and flexibility in the measurement of air flow, velocity, pressure and temperature.

FLOWHOOD

BACKPRESSURE COMPENSATED
AIR BALANCE SYSTEM



In less than 60 seconds, this meter can be installed on the **FlowHood**. Air flow readings are automatically corrected for air density and backpressure at supply or exhaust outlets. Virtually eliminates A_k factors.

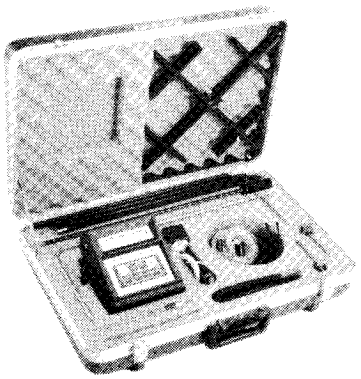
Shortridge Instruments, Inc.

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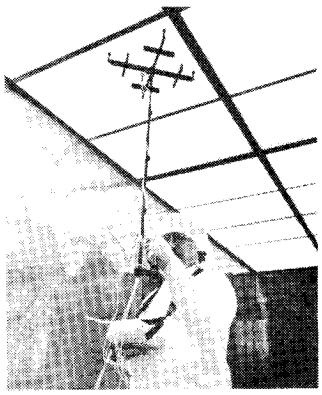
AIRDATA™ MULTIMETER

ELECTRONIC MICROMANOMETER

ADM-860



The multifunction model ADM-860 provides digital display of readings in English and metric units corrected for **local density only**. Features include speed-read, **memory** with total and average, and the versatile **VelGrid** and **AirFoil Probe**. Measures air velocity, absolute and differential pressure, temperature, and backpressure compensated air flow when used with the series 8400 FlowHood.



FAST ACCURATE DUCT VELOCITY TRAVERSES

One person can now perform **pitot tube** traverses in half the time previously required for two people. Each reading can be taken and entered into memory in about ten seconds. When the traverse is complete, each reading can be recalled, along with the sum and average of the readings. The **AirFoil** Probe is for general single point air velocity measurement. The straight shaft design permits use in ducts as small as two inches in diameter.

STATIC PRESSURE MEASUREMENT

The AIRDATA Multimeter measures an extremely wide range of pressures from 0.0001 in wc to over 60.00 in wc with very high accuracy. Despite its sensitivity, this meter can endure 20 psi differential pressure with no adverse effects. Absolutely no zero shift is caused by ranging or line pressure. Although designed for hand-held field use, this meter is as sensitive as some laboratory micromanometers.

ACCURATE TEMPERATURE READINGS

The 1/8" diameter, stainless steel **TemProbe** is uniquely suited for wet bulb, dry bulb and water line temperatures. The optional eight point AIRDATA MultiTemp is ideal for efficiency testing of air conditioning units and heat exchangers.

AUTOMATIC ZERO AND RANGE SELECTION

Internal calibration, temperature compensation, range selection and zeroing are fully automatic with each reading. No external adjustments are ever needed.

AIR DENSITY CORRECTED FLOW AND VELOCITY

Air flow and velocity readings are automatically corrected for the density effect of barometric pressure and temperature. Readings are displayed as local density, true air velocity or flow.

FUME HOOD AND CLEAN ROOM TESTING

The **VelGrid** is an accessory designed especially for use in the measurement of general face velocity conditions such as exhaust hoods, HEPA clean room filter outlets, laminar flow work stations, and large filters and coils. Each reading represents the input of 16 velocity points over a one square foot area. A 54-inch adjustable extension handle and meter neckstrap allow convenient positioning and use of the VelGrid.

STORE AND RECALL READINGS, AVERAGE AND TOTAL

The memory feature of the meter can store up to 100 readings for later recall of each reading, the total, and the average of the readings. This greatly simplifies pitot tube traverses, the averaging of face velocities, temperatures and static pressures, and the recording of outlet readings.

NEW AIR BALANCE ACCURACY

When a capture hood is in place, the air delivery of an outlet is reduced. This "backpressure" caused flow reduction varies from one outlet or damper setting to another. The new 8400 series **FlowHood** represents a major breakthrough in direct air flow measurement at supply and exhaust outlets. The AIRDATA Multimeter is easily installed on this new FlowHood unit and integrates its instant microprocessor calculating power with the unique flaps feature in the FlowHood base. Each reading is automatically compensated for the backpressure of the FlowHood. Also, the FlowHood virtually eliminates Ak correction factors and the calculations necessary to convert average velocity to air flow.

The **FlowHood** kits include the base metering section with velocity averaging grid, various top size combinations and rugged carrying case.

SPECIFICATIONS

AIR VELOCITY: ± 3% of reading ± 7 fpm 50 to 8,000 fpm pitot tube (30,000 fpm FS); 50 to 5,000 fpm AirFoil; 50 to 2500 fpm VelGrid.

DIFFERENTIAL PRESSURE: ± 2% of reading ± 0.001 in wc from 0.0500 to 50.00 in wc, (0.0001 to 60 in wc FS), 20 psid safe pressure.

TEMPERATURE: ± 0.5°F accuracy from 32°F to 158°F; typically ± 1.0°from -67° to 32°F and from 158° to 250 °F; 0.1° resolution.

AIR FLOW: Accuracy is ± 3% of reading ± 7 cfm from100 to 2000 cfm; range is 25 to 2500 supply, 25 to 1500 exhaust with 8400 **FlowHood**.

ABSOLUTE PRESSURE: ± 2% of reading ± 0.1 in Hg from 14 to 40 in Hg referenced to vacuum. 60 psia maximum safe pressure.

AMBIENT RANGE: Full range compensation from 40°F to 140°F.

AIR DENSITY CORRECTION: Local air density correction range is 14 to 40 in Hg and -67°F to 250°F.

POSITION SENSITIVITY: Unaffected by position or motion.

MEMORY: 100 readings, sequence labeled, sum and average.

CALIBRATION: Each meter certified, NIST traceable standards.

READOUT: 8 digit, 0.5", high contrast, liquid crystal display.

METER HOUSING: 6.0" x 6.4" x 2.7" high impact ABS. 36 oz.

CONNECTIONS: 1/4" OD slip-on for 3/16" ID soft tubing.

BATTERY LIFE: 2000 readings per charge, 500 recharge cycles.

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