

Hays Corporation

COMBUSTION INSTRUMENT SPECIALISTS SINCE 1901
HAYS DRAFT INSTRUMENTS

Michigan City

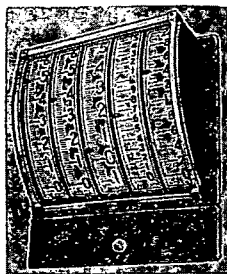
Indiana

PRODUCTS—Dry Type Pointer Draft Gages; U-Tube, Direct Reading and Vernier Scale Draft Gages; Air Filter Gages; CO₂ and Draft Recorders, Flue Gas Analyzers (Orsata); Portable Combustion Test Sets; Draft Recorders; Boiler Panels; Ignition Velocity Meters; Portable Hand Operated Gas Calorimeters, Recording Gas Calorimeters.

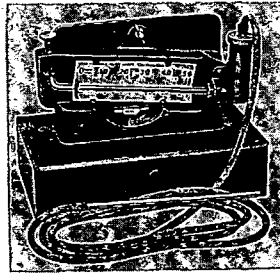
INDICATING

Hays Dry Type Pointer Gages for Draft, Pressure or Differential have Lug, wall or panel mounting. Any number of gages may be arranged compactly side by side.

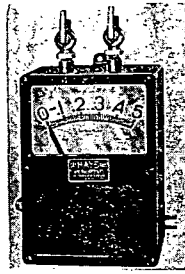
Critical accuracy is obtained from this fundamental type of portable inclined tube gage. Convenient reel for tubing. The B Dry Type Portable is accurate and rugged. Set up for service in 30 seconds. No liquids used.



V Type



Portable Inclined Tube

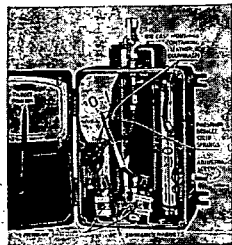


B Gage for Air Filters

Especially designed for indicating resistance through air filters. Air tight case will indicate differential pressure when connected to opposite sides of filter bank.

RECORDING

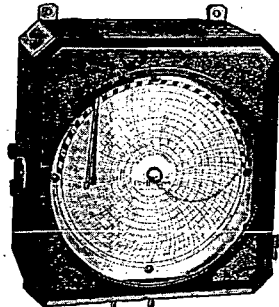
The Hays "OT" Recorder is an outstanding instrument that will put the operation of any system of ventilating or air conditioning on a recorded engineering basis. It is available also in a two-pen, two-unit style in ranges from 0 to 0.5 up to 0 to 100 inches water and secondary pressures from +0.1 to 0 to -0.4 up to 5.0 to 0 to 5.0. The Hays Super-sensitive "OH" Recorder (not illustrated) will record draft and pressure from 0 to 0.1 to 0 to 0.4 and pressure-draft from +0.1 to 0 to -0.1 to 0 to +.05 to 0 to -0.15. Write us for special information on these two outstanding air movement instruments.



Draftrol

CONTROLLING

Any range, any sensitivity of slack leather diaphragm may be built into the Hays Draftrol. Changes in draft, open or close electrical contacts in the non-tilting sealed mercury switches. We invite correspondence on applications of the Hays Draftrol Gages.



Hays "OT" Recorder

STATIC PRESSURE AND AIR FLOW

Illinois Testing Laboratories, Inc.

422 N. LaSalle Street, Chicago, Illinois

TESTING ENGINEERS AND MANUFACTURERS

"Alnor" Indicating Pyrometers—Portable and Stationary, "Alnor" Surface Temperature Pyrometers, "Alnor" Distant Reading Resistance Thermometers, "Alnor" Velometers (Boyle Type)—Air Velocity Meters.

"ALNOR" (BOYLE TYPE) VELOMETER

The Instantaneous Direct Reading Air Velocity Meter

Heating, ventilating, and air conditioning engineers as well as equipment manufacturers, industrial engineers, or anyone who has need for an instrument to give quick, accurate air velocity information will find the Velometer an indispensable instrument.

It is a direct reading instrument which gives accurate and instantaneous readings of the speed and direction of air motion measured in feet per minute.

The instrument is housed in an attractive black bakelite case $5\frac{1}{4}$ in. x $5\frac{3}{4}$ in. x $2\frac{3}{8}$ in. in size and weighs approximately 2 lb.

The air which enters through the meter, actuates a movement comprising a vane, control hair springs, pointer, and magnetic damping system.

No mathematical calculations or stop watches are necessary to determine the velocity reading as the pointer indications are a direct measurement of air speed.

The Velometer is furnished in two types: (1) the Shutter Type; (2) Tube Type. Standard double ranges 0-300 low range 0-3000 high range. Other special ranges higher and lower can be furnished.

Shutter Type—The shutter type has a shutter which opens or closes the ports in the instrument case for changing the scale range.

To use the shutter type Velometer it is merely necessary to hold the Velometer with the ports in line with the air stream.

Tube Type Velometer—The tube type Velometer is the same as the shutter type except that attachments are used with a suitable jet for the high scale readings. The air then enters or is drawn through this jet. With the tube type Velometer accurate velocity readings of the discharge or suction grilles, ducts or other restricted or small openings can be easily and quickly obtained.

Various types of jets are obtainable each especially designed for special function.

No. 2 Averaging Jet—In commercial work for ordinary duct openings or grille

use, it is simpler to take average readings over a 4 in. circle and for this service the No. 2 averaging jet is offered.

No. 5 and No. 6 Jets—Either bent or straight jets of this type having small orifices give exact velocities over a $\frac{1}{2}$ in. diameter surrounding the end of the jet. These jets are ideal for exploring the velocities through irregular shaped grilles, leaks in duct systems, and for measuring velocities of slotted grilles where other type of velocity meters cannot be used.

Duct Jets are offered for readings within ducts. The duct jet is in effect a double jet using two tube attachments and two meter fittings. The air enters the meter through one side of the jet and is returned and discharged back into the duct through the other side of the jet.

Write for Literature

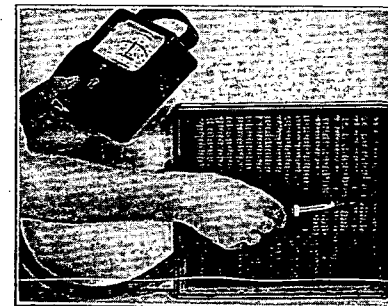


Fig. 1—Showing Tube Type Velometer with No. 5 Angle Jet taking air velocity of grille

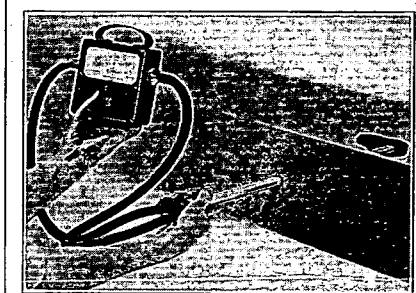


Fig. 2—Showing Tube Type Velometer with Duct Jet taking readings directly in the duct. Duct Jet furnished 18 in. or 36 in. long