

Illinois Testing Laboratories, Inc.

422 N. LaSalle Street, Chicago, Illinois

TESTING ENGINEERS AND MANUFACTURERS

Pyrometers—Portable—Wall Type—Surface Temperatures

Distant Reading Resistance Thermometers

Automatic Temperature Controllers—Air Velocity Meters

"ALNOR" VELOMETER

The Only All-Purpose Air Velocity Meter

The Velometer is a versatile direct reading air velocity meter which gives instantaneous readings of the speed of air.

The Velometer can be scaled to not only read velocities directly, but also to read static or total pressures when using suitable jets.

The Velometer is ideal for measuring duct Velocities and pressures, velocities at grilles or registers. It also offers a convenient and satisfactory instrument for checking drafts, leaks around doors or windows or in ducts, velocities of ceiling outlets and similar air diffusers.

Anyone can use the Velometer. No mathematical calculations, no leveling—no timing.

Made in standard ranges for velocity readings from 20 fpm to 6000 fpm and 3 in. static or total pressure. Special ranges available as low as 10 fpm and up to 24,000 fpm velocity and 20 in. pressure.

New Intake or Exhaust Grille Jet—To provide more accurate velocity readings at exhaust grilles a new type jet is now offered for use with the Velometer. This jet compensates for the change from static pressure to velocity pressure at or near the face of the grille.

Spot jets—for velocities over very small areas.

Averaging jets—for obtaining average velocities over a definite area or grille face.

Duct jets—for determining velocities directly within ducts or pipes.

Static pressure jet—for static pressures in inches of water.

Total pressure jet—for total pressure in inches of water.

Other jets—Standard jets offered in several lengths and sizes.

Special jets—can be designed for unusual applications.

Ask for Bulletin No. 2448-D

"ALNOR" DISTANT READING ELECTRIC THERMOMETERS

The use of "Alnor" multi-point resistance type thermometers is rapidly increasing in air-conditioning, as well as for heating and refrigerator installations.

The instrument can be located in the machinery room or boiler room with the elements located on various floors in any part of the building, or outdoors, thus providing the engineers with constant and convenient temperature readings.

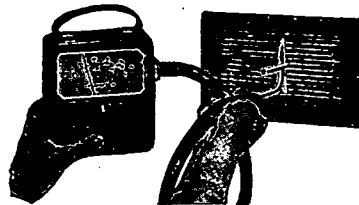
"Alnor" thermometers are made in several styles and sizes, both portable and mounted types.

Ask for Bulletin No. 2451-B

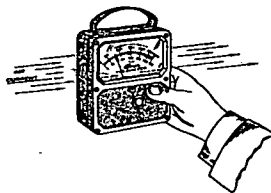
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Velometer with averaging jet used for checking velocity from supply grille. Tube is attached to left side.



Velometer with new exhaust grille jet. Tube is attached to right side.



View shows how instrument is used to read low velocities without jets.



"Alnor" round type multi-point resistance thermometer with built-in switch.

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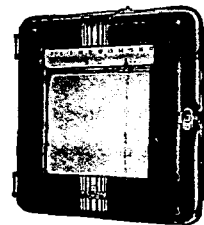
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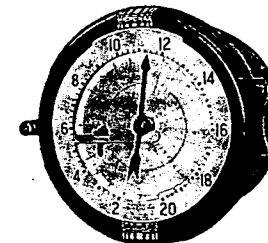
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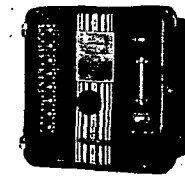
RUGGED, ELECTRICAL-BALANCE INSTRUMENTS



Model S Micromax Recorder
Records from 1 to 16 points on a single strip-chart. Extremely open record. Can operate signals. (About 1/16th size)



Model R Micromax Recorder
Records 1 or 8 points on a round-chart. Has extremely readable dial. Can operate signals. (About 1/16th size)



Panel Indicator
Hand-operated. Can be connected through selector switches to any number of points. (About 1/12th size)

Electrical Thermometers for Air Conditioning

No method for measuring temperatures fits the specific needs of air conditioning as does the three-lead, null-type resistance thermometer method. It is independent of distance and disregards all temperatures except those right at points of measurement. Thermohms (electrical resistance thermometers) can be placed anywhere—in rooms, air ducts or water lines. They are connected by simple electrical wiring to instruments at a central location. Instruments may be: Micromax Recorders, Model S for up to sixteen Thermohms, Model R, for related pairs such as wet and dry bulb; indicators with switches for any number of Thermohms; or indicating and recording combinations.

Sound in principle, this equipment is reliable in operation. Instruments and Thermohms are highly responsive, yet rugged in construction. A complete system is easy and economical to install, regardless of distances. It is easy to operate and demands minimum maintenance. Thermohms and instruments are interchangeable, and can be replaced without disturbing wiring or returning anything to the factory.

L&N Resistance Thermometers make it possible to operate efficiently; to maintain comfort or correct process atmosphere constantly . . . so that maximum return is realized on the conditioning investment.

Jrl Ad-N-225(2)

Electrical Instruments for the Steam Plant

The facts needed to operate a modern heating plant so as to save fuel, to protect equipment, and to operate efficiently at varying loads are provided reliably by rugged L&N instruments. Readings can be indicated or recorded or both. Recorders can be equipped to operate signals or alarms that warn the operator of extreme conditions. In some cases the instruments control automatically.

Micromax Model S provides a permanent record of conditions at from 1 to 16 points on one wide-scale chart. Micromax Model R concentrates on conditions at one point, provides a permanent record, has a giant indicating dial that can be read at a glance. A Panel Indicator provides intermittent checks on conditions at one or several points.

In the heating plant, L&N measuring, signalling or controlling equipment is used for:

Metermax Combustion Control
Furnace Pressure Control
Smoke Density Analysis
Flue Gas Analysis (Per Cent CO₂)
Flue Gas Temperatures
Steam and Water Temperatures
Boiler-Furnace Temperatures
Condenser Leakage