

BIDDLE Instrument News

MEGGER® ELECTRICAL INSULATION TESTERS

Hand—Rectifier—or Combination Operation—

Ratings up to 2000 Megohms and 1000 Volts D-C

HAND CRANK MEC TYPE

of Megger Insulation Tester is a reliable field instrument, light, sturdy, with a constant-voltage type generator—no dependence on batteries or other current supply. By far the most popular instrument among electrical plant maintenance men. Easy to use—easy to read—and rugged in constant service.

RECTIFIER OPERATED Meg Type

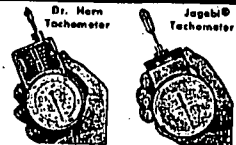
Megger Insulation Tester simply plugs into a convenient outlet. Portable or flush bench-mounted. A dependable production or inspection instrument. Quick, easy readings speed up otherwise costly tests.

DUAL-OPERATED MEC TYPE

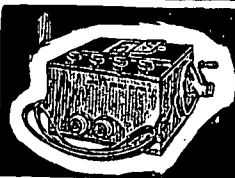
Megger Insulation Tester may be operated by hand or rectifier. Excellent solution for those requiring a versatile instrument for field and bench use.

Write for BULLETINS
21-43 P
21-46 P

IF YOU MEASURE SPEED . . . YOUR BEST BET IS BIDDLE



Instantaneous Speeds or Variations in Speeds. Write for BULLETIN 31-P



INSULATION TESTER & WHEATSTONE BRIDGE in ONE EASILY PORTABLE INSTRUMENT

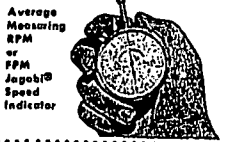
Measures Electrical Resistances From a Fraction of an Ohm up to 1000 Megohms

Affords the facility of:

- A Wheatstone Bridge for measuring conductor resistance of coils, resistors and circuits.
- A Megger Direct Reading Ohmmeter for measuring electrical insulation resistance (ohm and megohm scales).
- A Varley Loop Feature for locating faults on wires (optional).

This Bridge-Meg weighs only 15 lbs. and is completely self-contained with its own constant-voltage generator—no need to be dependent on batteries or other suitable test current.

Why burden yourself with two instruments when you can have the facilities of two for little more than the price of one in one compact, sturdy case. For complete details and prices write for BULLETIN 21-60 P



Average Measuring RPM or FPM
Jagobi® Speed Indicator
Frahm® Resonant Read Tachometer
Quick Accurate Readings with Safety
BULLETIN 31-P

JAMES G. BIDDLE CO.

ELECTRICAL TESTING INSTRUMENTS
SPEED MEASURING INSTRUMENTS
LABORATORY & SCIENTIFIC EQUIPMENT

1316 ARCH STREET
PHILADELPHIA 7, PA.

More BOOKSHELF

(1951 edition) and doing work with it. It shows diagrams one or more illustrations for each rule, clarifying just how the rule is applied. Illustrations must be in conjunction with the Code, since they are not included in such is (Copies of the National Electrical Code, available from National Board of Fire Underwriters, 85 John St., New York 13, N.Y.) Besides the diagrams, supplementary material is given where helpful. This book shows the why of the rule, practical and theoretical material. The second volume deals with equipment, special conditions and installation systems.

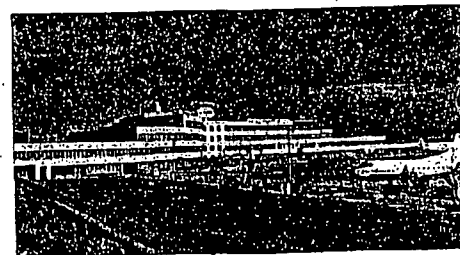
Alabama Power Co plans further expansion of its steam-electric generating station at Gorgas with the construction of a new \$25,000,000 plant which will have 150,000 kw General Electric turbine and it is expected that the plant will be further expanded to three or four units. The first unit will be completed in 1955. When the new plant is in operation the cost requirements at Gorgas increased to 1,500,000 tons annually.

Bids will be called immediately for construction of a \$52 million three-dam project on California's Stanislaus River, following approval of a bond issue by South San Joaquin Irrigation District voters. Authorized to issue \$26 million in revenue bonds as their share of the cost. Veterans of the Oakdale Irrigation District had already proved a similar bond issue. Three and three powerhouses will be built on the river at Donnell, Beardsley and Teller provide storage space for 230,400 acre feet of water and produce 81,000 kw of power. Bonds will be paid by selling power to Pacific Gas & Electric Co.

AMSTERDAM—McGraw-Hill World Development of Phillips' hot air engine has been nearly completed, according to Phillips Incandescent Lamp Works. The practically noiseless, hot air engine already being produced in series in Dordrecht factory and are in demand by domestic industries. A full statement will be made next year.

Tacoma, Wash. has approved a new charter which provides that City Light other municipal utilities will be operated by a board virtually independent of the council. The board will have "full power to construct, condemn and purchase, acquire, add to, maintain and operate electric, water and belt line railways and systems," although "all matters relating to system expansion, the insuring of facilities, and the fixing of rates and charges shall be subject to approval by the council."

EVERYTHING the Public wants including complete Air Conditioning with JOHNSON AUTOMATIC TEMPERATURE CONTROL



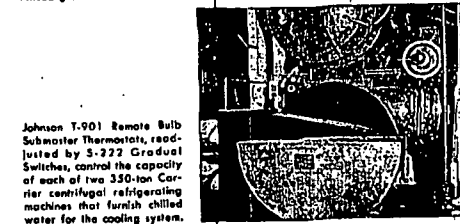
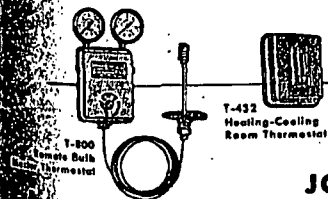
Terminal Building, Greater Pittsburgh Airport, Pittsburgh, Pa. Joseph Hoover, architect; Theodore F. Rockwell and Edward F. Tower, mechanical engineers; McGinness, Smith, McGinness Company, heating and air conditioning contractors, all of Pittsburgh.

The Greater Pittsburgh Airport, 14 miles west of Pittsburgh, famed "Golden Triangle", provides every convenience that the public desires. Literally a small city in itself, this most modern commercial air terminal in the world offers the ultimate in service and comfort.

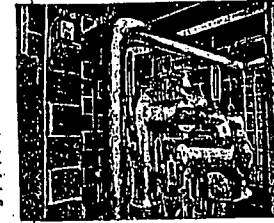
The seven-story terminal building is air conditioned throughout and includes hotel, offices, motion picture theater, dining room, coffee shop, cocktail lounge, night club, exhibit rooms, retail shops and public restrooms.

The diverse services present many different temperature regulation problems, most of which are solved automatically by the proper application of Johnson Control. All the way from the control of individual room temperatures, for human comfort, to the protection of delicate electronic equipment associated with the safe operation and maintenance of aircraft, the Johnson "Planned-for-the-Purpose", "Installed-for-the-Purpose" Control System solves the problems effectively.

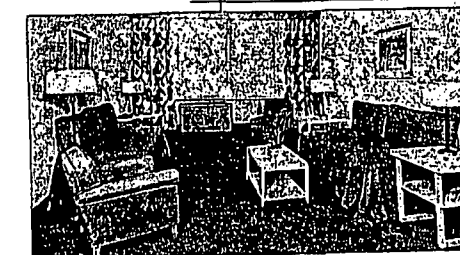
The same systems which are applied to the intricate temperature regulation problems of the nation's outstanding buildings are also available to you. Whether your building presents a multiplicity of problems or a relatively simple situation of automatic temperature control, call a Johnson engineer from a nearby branch. The benefit of the many years of experience which has been accumulated by the only nationwide organization devoted exclusively to manufacturing, planning and installing automatic temperature control systems. JOHNSON SERVICE COMPANY, Milwaukee 2, Wisconsin. District Branches in Principal Cities.



Johnson T-901 Remote Bulb Submaster Thermostat, readjusted by 5-272 Gradual Switches, control the capacity of each of two 350-ton Carrier centrifugal refrigerating machines that furnish chilled water for the cooling system.



Behind the scenes, in machine rooms, Johnson T-1800 Master Remote Bulb Thermostats, measuring the outdoor temperature, readjust T-901 Submaster Thermostats which control V-183 Vohles on the steam supply to the converters.



Hotel guest rooms have units supplied, during the heating season, with hot water and, during the cooling season, with chilled water controlled by Johnson Submaster instruments. Many individual offices in the building have Johnson T-432 Heating-Cooling Room Thermostats in addition.

JOHNSON Automatic Temperature and Air Conditioning CONTROL

MANUFACTURE • APPLICATION • INSTALLATION • SINCE 1885