



 $\frac{22a}{2}$



Bendíx-Friez

Weatherman* Dials

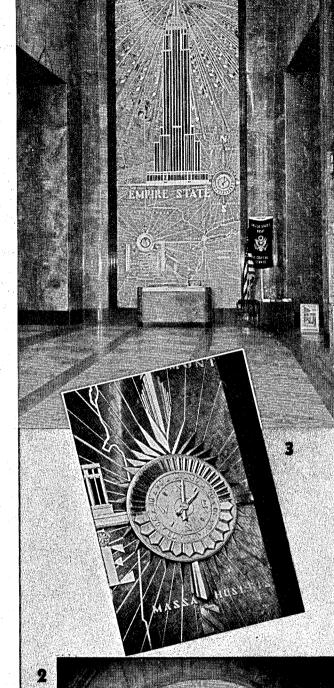
Bendix-Friez Weatherman Dials offer the architect an unusual means of decoration, perform a useful function, and constitute a public service. Because the ever-changing weather is a vital concern of everyone, Bendix-Friez Weatherman Dial displays have the unique ability of focusing on any location the continuous, inquiring interest of the public.

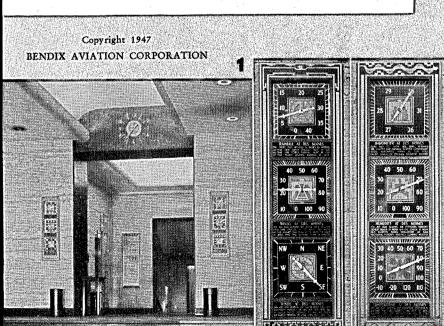
Weatherman Dials are placed in entrance lobbies, reception rooms and like locations where they may be observed indicating outdoor weather conditions. They indicate wind speed, wind direction, outdoor air temperature, relative humidity, and atmospheric pressure—or any combination of these. A matching clock may be added.

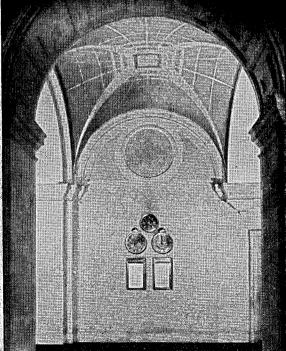
Today, Bendix-Friez Weatherman Dial installations are points of pride in many large buildings such as office buildings, and those of banks, newspapers, public utilities, and insurance companies—to name a few. There is hardly a public lobby whose appearance and utility cannot be enhanced by Bendix-Friez Weatherman Dials—not a decorative motif with which they cannot be designed to harmonize. These instruments are simple to install and require little or no maintenance. It is not necessary to deviate from normal design or construction to include them. The standardized mechanisms are manufactured to the exacting requirements which have made the name of Bendix-Friez synonymous with precision meteorological instruments.

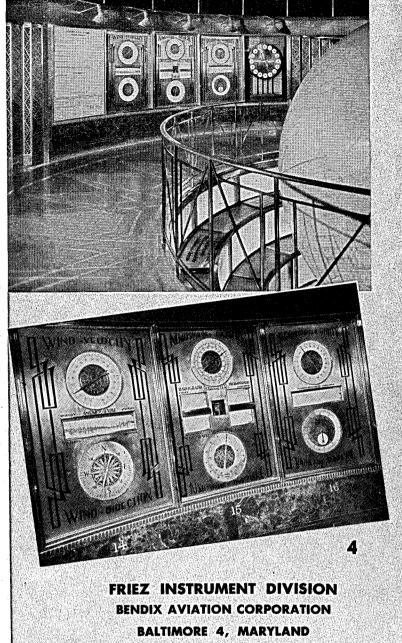
* TRADE MARK

Bendíx-Fríez—For over 71 years the manufacturers of standard weather instruments for the U. S. Army, Navy, and Weather Bureau.









- Entrance lobby of the Bankers Life Bldg., Des Moines, Iowa. Notice the two panels of Bendix-Friez Weatherman Dials flanking either side of the door, and also the close-up of the dials showing Indian motif.
- Cast bronze barometer, wind speed, and wind direction dials installed in the Christian Science Building, Boston, Mass.
- A combined wind speed and wind direction dial installed in the Empire State Building, New York, N. Y.
- The world-famous display of Bendix-Friez Weatherman Dials and special recorders in the Daily News Building, New York, N. Y.
- 5. An interesting display of Bendix-Friez Weatherman Dials in the Buhl Planetarium, Pittsburgh, Pa.



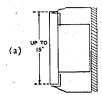
DIALS AND INDICATORS

Indicating mechanisms and enclosing cases are standardized. However, as will be seen from the examples illustrated, dials are designed in each individual instance by, or in cooperation with, the architect to harmonize with each particular location and motif.

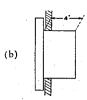
Dials of varying size—generally not to exceed fifteen inches in diameter—may be used. The design itself is limited only by the tastes of the designer. Effective dials have been designed and fabricated of glass, cast in bronze, and molded in plastics. Lighting may be direct or indirect. Striking effects have been obtained by molding clear plastic dials with appropriate figures depressed into the backs. Sand blasting or filling with color, and edge lighting the dials, causes the figures to stand out in glowing relief

when viewed from the front. Bendix-Friez engineers and designers will be happy to work with you on all phases of design.

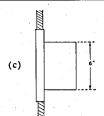
Two indicators may be operated from the same transmitter if it is desired to have two sets of Weatherman Dials in different locations. All indicators, except for barometric pressure, are low voltage D.C. positioning indicators which repeat the signals received from the transmitter and activate the pointers accordingly. Thus, each gust and lull and change in direction of the wind—every change in temperature and humidity is indicated immediately by the pointers on the dials. The barometer mechanism consists of a powerful aneroid properly compensated, and requires no current except for illumination.



A space six inches in diameter and four inches deep should be allowed for each indicator mechanism. The manner of mounting will vary with the type of installation. (a) The mechan-



isms are enclosed in a case or bezel and mounted on the surface of the wall. This method is especially suited to installation in existing buildings. (b) The Mechanism is mounted in the wall



and the dial, or dial-panel, is mounted on the wall. (c) Same as (b) except the dial is mounted flush with the wall surface.

TRANSMITTERS

The wind speed and direction transmitter is a recent Bendix-Friez development similar to the Bendix-Friez Aerovane* and Windial* which are installed in many airport control towers and meteorological stations. It combines in a single instrument both the wind speed and direction sensing units—a three-bladed, molded plastic rotor for measuring wind speed, and a streamlined, aluminum alloy vane for measuring wind direction. The wind's speed and direction are relayed to the indicators by special Bendix-Friez designed, low voltage D.C. telemetering transmitters enclosed within the instrument's housing.

Similar telemetering mechanisms are used for transmitting temperature and humidity to the indicators. The temperature transmitter is positioned by a sensitive bi-metal element. The humidity transmitter is activated by multiple hair elements of the same type used in standard Bendix-Friez meteorological recorders of relative humidity. These

humidity responsive elements are made of specially treated human hair, and have long been recognized for their accuracy and dependability. A remote transmitter is not required for barometric pressure.

Transmitters for temperature and humidity are protected by small louvred shelters finished in white to reduce the effects of solar radiation.

The transmitters are placed on the roof of the building as far as practicable from such disturbing elements as excessive heat, turbulence, and corrosive chimney exhausts. In this location they will serve, despite sun and storms, for long periods without attention.

ELECTRICAL: The Weatherman Dial system operates on low voltage D.C. Transformers and rectifiers for use with 115 volt, 50 or 60 cycle current are supplied as needed. Eight low voltage wires are required for wind speed and direction, and eight for temperature and humidity.

Bendix-Friez engineers and designers will be glad to work with you on all phases of design and installation to meet your particular requirements. Write us.

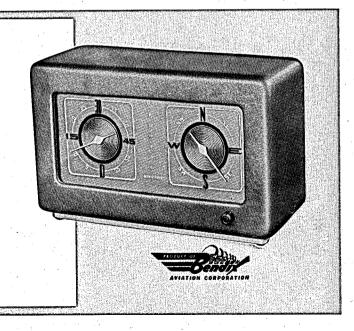
"Windial"

FOR HOMES . . . OFFICES . . . CLUBS

The Windial is a compact, accurate wind speed and direction indicator. A product of modern engineering and industrial design, it is as efficient in performance as it is attractive in appearance. The Windial has been found equally at home in offices, yacht and country clubs, or installed in the residence of the most fastidious home-owners.

The Windial is precision engineered for simple installation, and maintenance, and is built to give long, trouble-free service. It operates on standard 115 volt A.C. through a transformer and rectifier so that all internal wiring is low voltage D.C. Write for full information.

* TRADE MARK



FRIEZ INSTRUMENT DIVISION

BENDIX AVIATION CORPORATION
BALTIMORE 4, MARYLAND