

NEW YORK
1869.



1900-
1901.



CHICAGO
1883



CATALOGUE
AND PRICE LIST



OF
KEUFFEL & ESSER CO.

MANUFACTURERS AND IMPORTERS

OF
DRAWING MATERIALS
AND
SURVEYING INSTRUMENTS



NEW YORK

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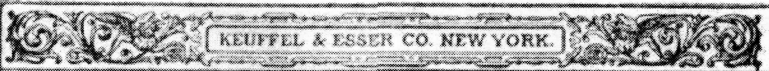


PHILADELPHIA
1876



CHICAGO
1893.

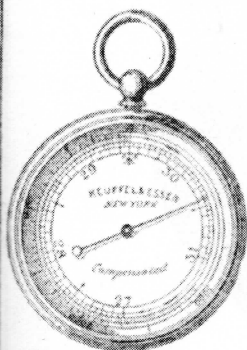




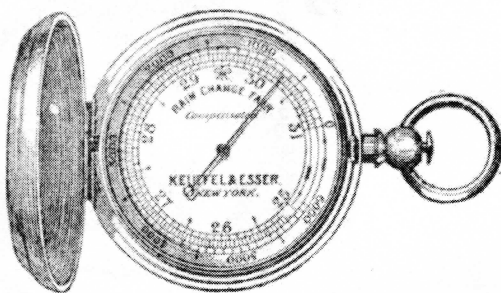
ANEROID BAROMETERS.

FOR MEASURING HEIGHTS AND ATMOSPHERIC PRESSURE.

Copyright, 1891, by Keuffel & Esser.



No. 5855.

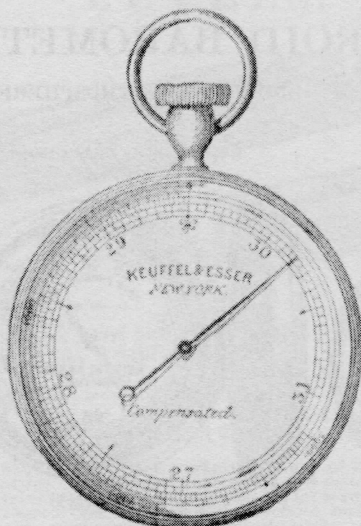


5871.

- | | | |
|-------|---|----------|
| 5850. | Watch pattern, gilt case, 1 3/4 in. diameter, silvered dial, revolving altitude scale 8000 feet, in morocco case, each | \$ 12 90 |
| 5855. | Watch pattern, gilt case, 1 3/4 in. diameter, silvered dial, revolving scale 3000 feet, compensated for temperature, in morocco case | " 20 00 |
| 5856. | Like No. 5855, but altitude scale 6000 feet | " 18 80 |
| 5857. | " " 5855, " " " 12000 " | " 20 00 |
| 5858. | " " 5855, " " " 18000 " | " 21 50 |
| 5860. | Pocket pattern, gilt case, 1 3/4 in. diameter, silvered dial, revolving altitude scale 8000 feet, compensated for temperature, detachable bar-needle compass on reverse side, in morocco case | " 29 50 |
| 5861. | Like No. 5860, but altitude scale 18000 feet | " 30 60 |
| 5870. | Watch pattern, nickel hunting case, 2 in. diameter, silvered dial, revolving altitude scale 3000 feet, compensated for temperature | " 23 20 |
| 5871. | Like No. 5870, but altitude scale 6000 feet | " 22 00 |
| 5872. | " " 5870, " " " 12000 " | " 23 20 |
| 5873. | " " 5870, " " " 18000 " | " 25 25 |

KEUFFEL & ESSER CO NEW YORK

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No. 5890.

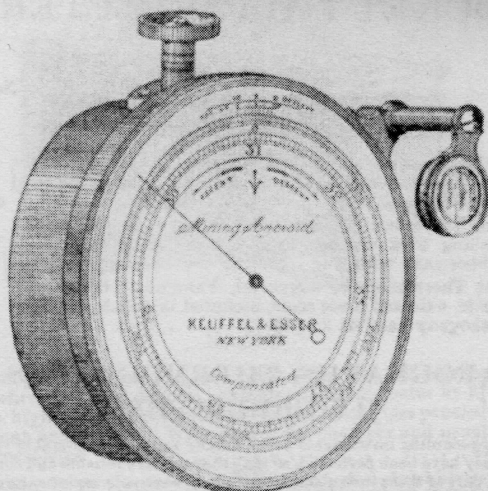
- | | | |
|-------|---|---------------|
| 5880. | Pocket pattern, brass case, $2\frac{1}{2}$ in. diameter, silvered dial, revolving altitude scale 3000 feet, compensated for temperature, in morocco case | each \$ 21 00 |
| 5881. | Like No. 5880, but altitude scale 6000 feet | " 20 00 |
| 5882. | " " 5880, " " " 12000 " | " 21 00 |
| 5883. | " " 5880, " " " 18000 " | " 22 00 |
| 5890. | Pocket pattern, bronzed case, $2\frac{1}{2}$ in. diameter, silvered dial, revolving altitude scale 3000 feet, operated by rack and pinion, revolving pointer (index) operated by separate action by milled ring, compensated for temperature, in morocco case | " 33 30 |
| 5891. | Like No. 5890, but altitude scale 6000 feet | " 32 20 |
| 5892. | " " 5890, " " " 12000 " | " 33 30 |
| 5893. | " " 5890, " " " 18000 " | " 34 65 |

As the altitude scale and the pointer of Nos. 5880 to 5890 have separate actions, the instrument can also be used as one with fixed altitude scale.

- | | | |
|-------|--|---------------|
| 5895. | Mining Barometer, like No. 5890, but reading 3000 feet below and 6000 feet above sea level | each \$ 34 65 |
|-------|--|---------------|

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No. 5020.

- | | | |
|-------|---|---------------|
| 5900. | English Government pattern, brass case, 5 in. diameter, silvered dial, divisions on raised ring, fixed altitude scale 6000 feet, revolving pointer, compensated for temperature, curved thermometer, in morocco case, | each \$ 32 20 |
| 5902. | Like No. 5900, but altitude scale 12000 feet | " 35 45 |
| 5904. | " " 5900, " " " 18000 " | " 38 10 |
| 5910. | Surveying Barometer, brass case, 3 in. diameter, silvered dial, divisions on raised ring, fixed altitude scale 14800 feet, vernier scale operated by rack and pinion, reading to 5 feet, compensated for temperature, adjustable reading lens, in leather sling case | " 50 50 |
| 5915. | Surveying Barometer, brass case, 5 in. diameter, silvered dial, division on raised ring, fixed altitude scale 5000 feet, vernier scale operated by rack and pinion, reading to 1 foot, compensated for temperature, adjustable reading lens, in leather sling case | " 53 70 |
| 5916. | Like No. 5915, but altitude scale 14900 feet | " 75 00 |
| 5920. | Mining Barometer, brass case 5 in. diameter, silvered dial, divisions on raised ring, fixed altitude scale 2000 feet below and 4000 feet above sea level, vernier scale operated by rack and pinion, reading to 1 foot, compensated for temperature, adjustable reading lens, in leather sling case | " 63 70 |

The instruments Nos. 5910 to 5920 are constructed specially for ascertaining slight variations in gradients, levels etc. Their extreme sensitiveness is of great value in mining and surveying work generally. A valuable improvement in these instruments is an arrangement of the scale of altitude permitting the reading by a vernier, formerly impracticable, owing to the usual altitude scale being a gradually diminishing one to which a vernier could not be applied. In the above instruments the action has been so adjusted as to give accurate readings upon a uniform scale of altitudes, the barometrical scale of inches having been made progressive so as to afford the correct relative readings with the scale of altitudes.

These instruments are also constructed for measuring greater altitudes, i. e., 10,000, 15,000 or 20,000 feet, but with these higher scales the measurements cannot be made quite so minute as in the more open scales.

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POCKET THERMOMETERS.



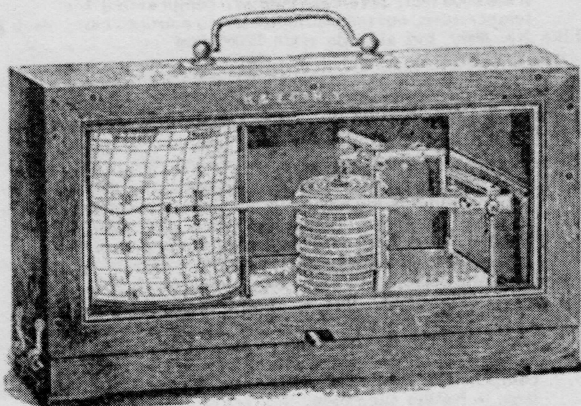
No. 5930.

5930. Pocket Thermometers, mercurial, 5 in., opal glass scale, reading to 2 degrees, in nickel-plated brass or hard rubber case each \$ 85
5931. Pocket Thermometers, mercurial, 4 in., opal glass scale, reading to 2 degrees, in nickel-plated brass or hard rubber case with ring 50
5932. Pocket Thermometers, mercurial, Fahrenheit and Centigrade, oxidized brass scale, mounted in polished, hinged mahogany case, $4\frac{1}{2}$ x $1\frac{1}{4}$ in. 1 75

BAROGRAPHS, THERMOGRAPHS & HYGROGRAPHS.

These self-recording instruments are for many purposes preferable to reading instruments. They have been perfected, so that they now are reliable and correct.

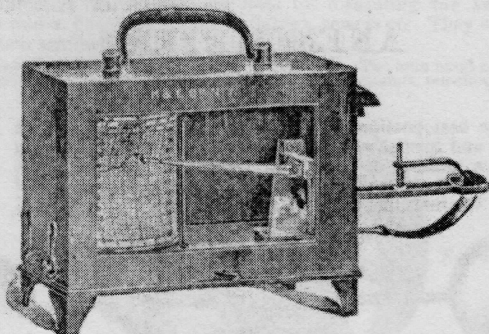
The vital part of these instruments expands or contracts under varying conditions of the atmosphere and imparts its motion to a multiplying lever. To one end of this a pen is attached which automatically draws a curve on a graduated chart wound around a cylinder. The latter revolves once a week by clockwork running one week.



No. 5941.

5940. Barograph, small size; registering one week; from 28 in. to 30.5 in. atmospheric pressure, by twentieths inches. Series of 5 vacuum boxes; cylinder $2\frac{1}{4}$ in. diameter by $2\frac{1}{4}$ in. high. In polished mahogany Case, hinged cover with glass paneled front and handle. With charts for one year and usual accessories. each \$45 00
5941. do. do. but large size; series of 8 vacuum boxes. cylinder $3\frac{1}{2}$ in. diameter by $3\frac{1}{2}$ in. high 55 00

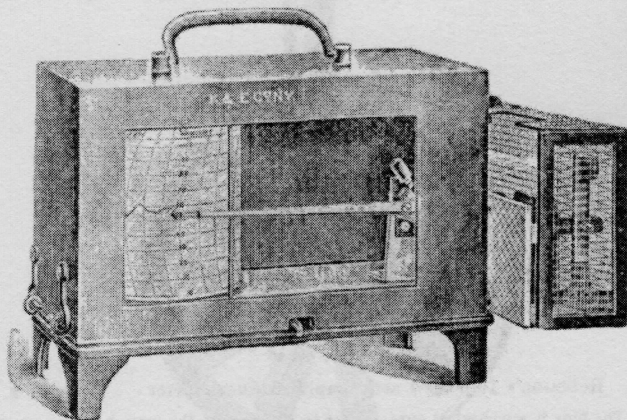
KEUFFEL & ESSER CO. NEW YORK.



No. 5942.

5942. Thermograph, registering one week; from 0 to 100 degrees Fahrenheit by 2 degrees; cylinder $2\frac{1}{2}$ in. diameter by $2\frac{1}{2}$ in. high. In weather-proof metal case, with glass paneled front and handle. With charts for one year and usual accessories each \$ 45 00

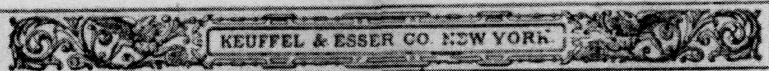
The curved tube outside of the case is filled with alcohol and hermetically sealed; the alcohol expands and contracts under changes of temperature, thereby changing the curve of the tube and this motion is imparted to the recording lever.



No. 5943.

5943. Hygograph, registering one week; from 0 to 100 per cent. of moisture by single per cent. Cylinder $3\frac{1}{2}$ in. diameter by $3\frac{1}{2}$ in. high. The sensitive hairs are protected by a wire cage. Instrument in weather proof metal case with glass paneled front and handle. With charts for one year and usual accessories each \$ 60 00

The vital part of this instrument consists of a bundle of fine sensitive hairs, which expand and contract under variations of the humidity and this motion is imparted to the recording mechanism.

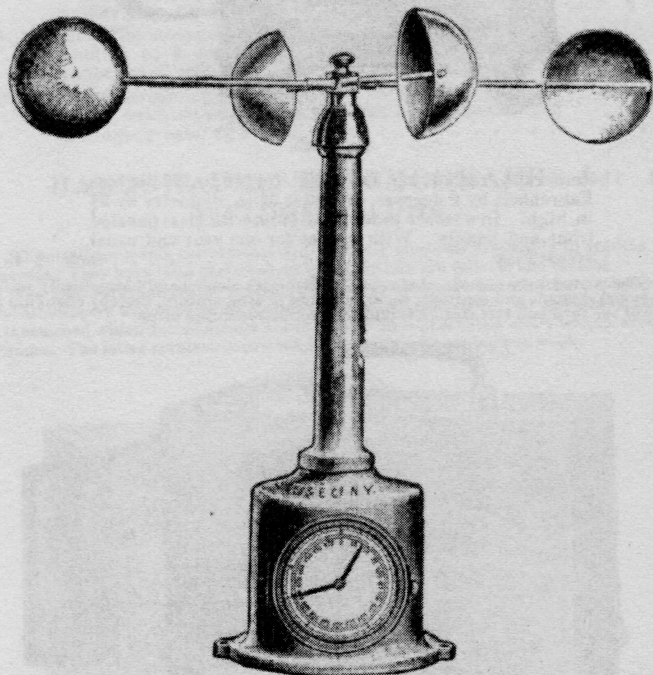


ANEMOMETERS.

TESTING.

We have the best possible appliances for testing anemometers and furnish with each anemometer a table giving a number of variations. A much more complete table of this kind, practically covering the range of the instrument will be furnished for . . .

\$ 5 00



No. 5948

5948 Robinson's Improved and Simplified Anemometer . . . each \$ 30 00

The four hemispherical cups are set in rotation by the motion of the air and the number of revolutions is recorded by the mechanism in the base of the instrument. The vertical axis communicating the motion of the cups to the recording mechanism runs in ball bearings, thus assuring a very sensitive and delicate movement. The results of observations can be read off on an enameled dial on the face of the base. The outer circle of this dial registers 3 miles by 1/4 mile and the inner one up to 500 miles. The two hands can be set to zero.

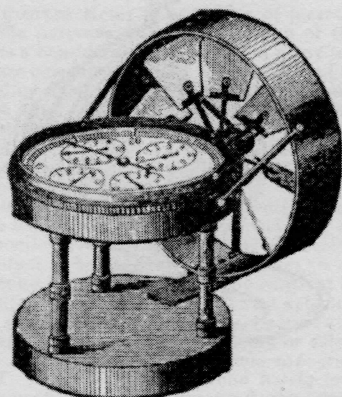
As we manufacture anemometers, we have the best facilities for repairing them, whether of our make or other.

For Stop Watches, see page 405.

KEUFFEL & ESSER CO. NEW YORK.

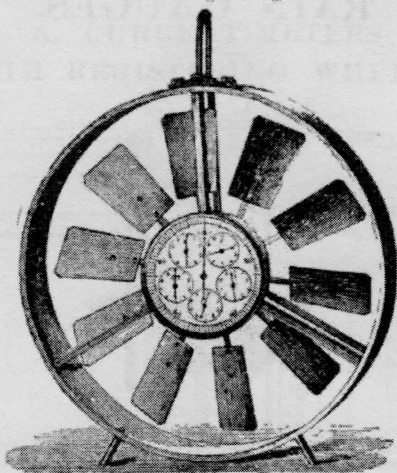
Anemometers (Air Meters) are used for measuring the velocity of air currents in mines, hospitals, public buildings, sewers etc. They serve manifold and important sanitary and scientific purposes.

The fans (or vanes) must always face the current. The long hand registers feet on the large circle, while on the small circle hundreds, thousands, ten-thousands, etc. are registered.



No. 5952.

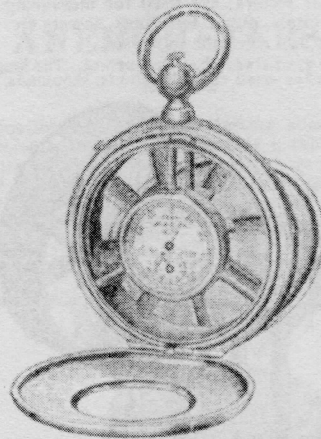
5950. Improved Portable Air Meter, with disconnecter, vane
 2½ in. diam., registering 1000 feet, in Wooden Case, each \$ 19 50
 5952. do. do. do. registering 10,000,000 feet, " 21 75



No. 5963

5953. Biram Anemometer, 3 in. diam., reading to 1000 feet,
 with disconnecter, each \$ 20 25
 5957. do. 4 in. diam., reading to 1000 feet, do. " 19 00
 5958. do. 4 " " " " 100,000 " do. " 21 00
 5963. do. 6 " " " " 1000 " do. " 21 00
 5965. do. 6 " " " " 10,000,000 " do. " 33 00
 Leather Sling Cases for Anemometers, 3 4 6 in.
 each \$ 2 50 2 75 3 00

For Stop Watches see page 405.



No. 5968

5968 Watch pattern Anemometer, 2 in., registering to 1000 feet; nickel plated hunting case, with stop. The two covers when open form a base for the instrument. In silk velvet lined morroco Case each \$ 30.00

RAIN GAUGES.



No. 5980

5982

5984

5980.	Rain Gauge, Howard's model, simple construction, with graduate, reading to $\frac{1}{16}$ in.	each \$ 4.00
5982	do do Symon's model, with prongs to prevent tipping, with graduate reading to $\frac{1}{16}$ in.	" 6.00
5984	do do Glasher's model, a very reliable instrument, with graduate reading to $\frac{1}{16}$ in.	" 8.50