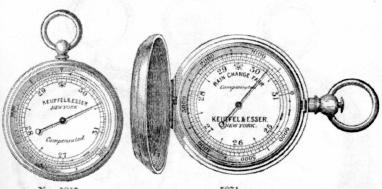




FOR MEASURING ALTITUDE AND ATMOSPHERIC PRESSURE.



No. 5855.

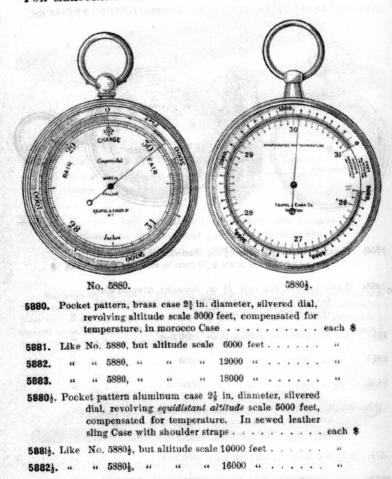
5871.

585	i0.	Wat				It case 1; tude scal										each
585	55.	Wat	rev	olving	alti	t case 1 tude scal in moroc	e 300	0 feet	, cor	mp	ens	ate	ed	f	or	**
585	6.	Like				altitude										"
585	57.	"	66	5855,	66	18	**	12000	44	*						"
585	58.	66	86	5855,	64	44	44	18000	61			*				"
587	0.	Wat	ver	ed dia	l, re	kel hun volving s emperati	ltitue	le sca	le 30	000	fee	et,	C	on	Q-	44
587	11.	Like	No.	5870,	but	altitude	scale	6000	feet	*						"
587	12.	"	**	5870,	44	*6	44	12000	44			*				"
5.07	12			5970		44		18000	44							

PLAIN DIRECTIONS FOR MEASURING HEIGHTS FURNISHED WITH EACH INSTRUMENT.



FOR MEASURING ALTITUDE AND ATMOSPHERIC PRESSURE.



Nos. 589%-5882%. The advantage of this type barometer lies in its equidistant altitude scale. In the old type instrument the unit of division of the altitude scale decreased commensurately with the increased in altitude; the altitude scale of this new type barometer is graduated uniformly throughout its entire length, thus accuracy is not dependent upon the section of the scale which may be read.

PLAIN DIRECTIONS FOR MEASURING HEIGHTS FURNISHED WITH EACH INSTRUMENT.



FOR MEASURING ALTITUDE AND ATMOSPHERIC PRESSURE.



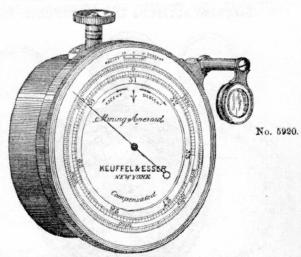
No. 5892.

5890.	Pock	dial, rack sepa	revolution and parately	ving into by	onzed ca altitude n, revolv milled ric leather	scale ing pag, con	8000 fe pinter (npensa	eet, (inde ted	ope ex) for	ora ora	ter per m	i t ate er	y ed a-	each	8	
5891.	Like	No.	5890,	but	altitude	scale	6000	feet						- 41		
5892.	41	4.5	5890,	**	44		12000	**					*	24		
5893.	**		5890,	**		14	18000	a				*		. 44		
instrun					the points s with fixe Cases fo	-	S. See	100.000				-			ons.	these
		5892	and	5893				•						each	*	
5900.	Engl	silve tude for	ered d scale lempe	al, (600) ratu	nt patter graduation feet, re- re, curve	ons on volvin ed the	raised g point rmome	l rin ter, c eter;	g, con in	fix ap	ed ens	al at	ti- e d co		8	
5902.	Like	No.	5900,	but	altitude	e scal	e 1200) fee	et				٠	- 44		
5904.	**		5900,	**	"	"	18000) "						**		
P	LAIN DI	RECT	IONS FO	R MI	EASURING	HEIGHT	S FURN	SHE) 14	nT:	E	ACE	1 10	ISTRUM	ENT	



SURVEYING BAROMETERS.

FOR MEASURING ALTITUDE AND ATMOSPHERIC PRESSURE.



- 5910. Surveying Barometer, bronzed case 3 in. diameter, silvered dial, graduations 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. . . each \$
- 5915. Surveying Barometer, bronzed case 5 in. diameter, silvered dial, graduations 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 . . .
- 5916. Like No. 5915, but altitude scale 14900 feet, reading to 2 feet,
- 5920. Mining Barometer, bronzed case 5 in. diameter, silvered dial, graduations 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
 - Sewed leather Sling Cases for Nos. 5910,5915,5916 and 5920

The instruments Nos. 5910 to 5930 are constructed especially 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 vernier, formerly impracticable owing to the usual altitude scale being a gradually diminishing one to which vernier could not be applied. In the above instruments the action has been adjusted 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., up to 20,000 feet, but with these higher scales the measurements cannot be made quite so minute as with the more open scales.

PLAIN DIRECTIONS FOR MEASURING HEIGHTS FURNISHED WITH EACH INSTRUMENT.





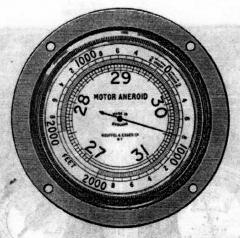
No. 5922,

5922. Aneroid-Magnetic Compass set, consisting of:-

This is a fine set for travelers, automobilists, aviators, etc.



AUTOMOBILE ANEROID.



No. 5924.

POCKET THERMOMETERS.





No. N 5930.

N 5930. Pocket Thermometers, mercurial, 5 in., Fahrenheit, opal glass scale reading to 2 degrees; in nickelplated brass

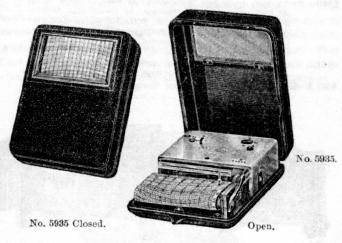


BAROGRAPHS, THERMOGRAPHS, HYGROGRAPHS.

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

The sensitive member of these instruments expands or contracts under varying conditions of pressure, temperature, or humidity of the atmosphere and imparts its motion to a multiplying lever. A pen automatically records on a graduated chart which is operated by clockwork.

POCKET BAROGRAPHS.



5935	Pocket Barograph, compensated for temperature, reading
	to 4000 feet; in morocco-covered metal Case. Baro-
	graph, with bottle of Ink and 50 graduated Charts;
	in polished mahogany Box each
5000	Tib. W. FOOT A STATE OF THE STA

5936.	Like	No.	5935,	but	reading	to	7800	feet		*		*		**
5937.	44		44	44	46	**	15000	**			~			**

These self-recording aneroid barometers are of great advantage in many cases where the bulk and weight of the usual barographs forbid their use.

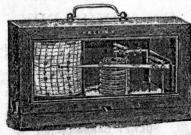
The Pocket Barograph measures $4\% \times 3\% \times 1\%$ in and weighs about one pound. The metal, morocco covered case has a glass inserted in the cover over the chart, for taking readings without opening the case.

The chart is so ruled that it represents the time by half-hours, for 24 hours, and the pressure in feet of altitude. The pen makes contact every two minutes. The instruments also indicate atmospheric changes, like other aneroids.

Notwithstanding its small size the Pocket Barograph is a relativety reliable instrument.

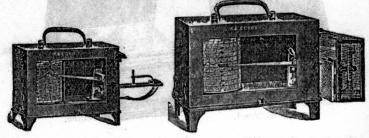


RECORDING INSTRUMENTS.



No. 5941.

- 5940. Barograph, small size, registering one week; from 28 in. to 31 inch atmospheric pressure, by twentieths inches. Series of 5 vacuum boxes, cylinder 2½ in. diameter ×2½ in. high. In polished mahogany Case with handle, hinged cover with glass-paneled front. With Charts for one year and bottle of Ink each \$
- 5941. do. do. but large size; series of 8 vacuum boxes, cylinder 3½ in. diameter × 3½ in. high
- 5941 H. Gimbal Hook for suspending Barograph from ceiling on shipboard



No. 5942.

5943,

The curved tube outside of the case contains alcohol and is hermetically sealed. The alcohol expands and contracts under changes of temperature, thereby changing the curve of the tube and thus imparting motion to the recording lever.

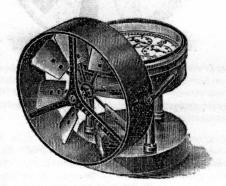
The sensitive member of this instrument consists of a bundle of fine hair, which expands and contracts under variations of humidity, and imparts the resultant motion to the recording mechanism.

Extra charts for period of one year for Nos. 5935, 5936, 5937, per set \$ do. do. do. for Nos. 5940, 5941, 5942, 5943 " "



ANEMOMETERS.

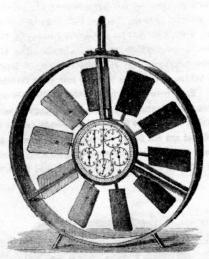
Anemometers are used for the measurement of the velocity of air currents in mines, tunnels, sewers, public buildings, hospitals, etc. As now constructed by us, these instruments embody a number of important mechanical improvements, among which may be mentioned the zero setting arrangement. Setting the instrument to zero before each reading does away with the necessity of taking a previous reading into consideration and lessens the liability of error. Each instrument is carefully calibrated and provided with a calibration curve. Our instruments have jewel bearings and are constructed to measure air velocities from 200 to 2000 feet per minute (except No. 5966Z, which measures to 6000 feet and No. 5967, which measures from 75 to 400 feet). They should not be used in temperatures exceeding 300° F. As a rule, our anemometers (except No. 5966Z, and No. 5967) are calibrated from 200 to 1000 feet.



No. 5952.



ANEMOMETERS.

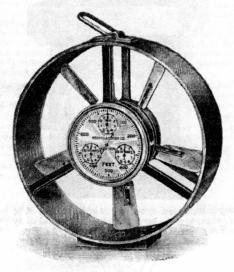


No. 5965 Z.

5953.	Biram Anemometer, 3 in. diam., reading to 1000 feet, with disconnector; in leather pouch with belt loop each
5957.	Biram Anemometer, like No. 5953, but 4 in. diam., reading to 1000 feet; in leather pouch with belt loop "
5958 Z.	Biram Anemometer, like No. 5953, but 4 in. diam., reading to 100,000 feet, with Zero Setting arrangement; in leather pouch with belt loop
5963.	Biram Anemometer, like No. 5953, but 6 in. diam. reading to 1000 feet; in leather pouch with belt loop "
5965 Z.	Biram Anemometer, like No. 5953, but 6 in. diam., reading to 10,000,000 feet, with Zero Setting arrangement; in leather people with helt loop.



HIGH SPEED ANEMOMETER.



No. 5966 Z.

59667. High Speed Anemometer, for measuring air velocities up to
6000 feet per minute; 6 in. diameter, registering to
1,000,000 feet by 10 ft. intervals, with disconnector and
zero-setting arrangement; in leather pouch with belt
loop. each \$

The K & E High Speed Anemometer is intended for use in measuring the velocities of air blasts or gases moving at high velocities, such as are encountered in blast furnace work or similar operations. The most substantial and durable construction is employed for all parts, insuring reliable results. It may safely be used in temperatures up to 300° F.

LOW SPEED ANEMOMETER.

We make an instrument similar to No. 5963, but more delicate in construction, for measuring velocities from 75 to 400 feet per minute. This instrument was developed for measuring air currents at the registers of heating and ventilating systems, in schools, public buildings, etc.

5967. Low Speed Anemometer, in leather pouch with belt loop, each \$



RAIN GAUGES.



5971. Registering Rain Gauge, zero-setting, metal case 8½ × 8½ in. × 10½ in. high, records up to 12 inches of rainfall by 100ths inches. The copper receiver is of improved design...each \$

