

85th Anniversary Catalog

LABORATORY
APPARATUS
AND SUPPLIES



Eimer & Amend

THIRD AVENUE
EIGHTEENTH TO NINETEENTH STREET
NEW YORK, N. Y.

ESTABLISHED 1851

INCORPORATED 1897

AIR TESTING APPARATUS

No. 16078 Low Reading Anemometers

For velocities of air currents from 30 to 300 ft. per minute; one dial reading to 50 ft.; jeweled movement. Diameter, 4 in.

Complete in case with correction chart.

16078.....each 86.63



No. 16079

No. 16079 Biram Pocket Anemometers

For air velocities from 200 to 1000 ft. per minute; two dials reading to 1000 ft.; jeweled movement; disconnecter (not zero setting).

In hinged case 2 in. in diameter and 3/4 in. thick.

16079.....each 93.75

No. 16081 Biram Anemometers

For registering the velocity of air currents in mines, tunnels, flues, furnaces, etc. Furnished with chart of corrections for velocities from 200 to 3000 ft. per minute; three dials reading to 10000 ft.; disconnecter; automatic zero setting arrangement; jeweled movement. Diameter, 4 in.

To operate set all hands at zero and place the anemometer in the air channel, move the stop lever and at the end of a definite number of minutes again move the stop lever and note the reading. This will show the number of linear feet of air that have passed the instrument. To obtain the number of cubic feet, multiply the number of linear feet by the area of the channel.

In carrying case.

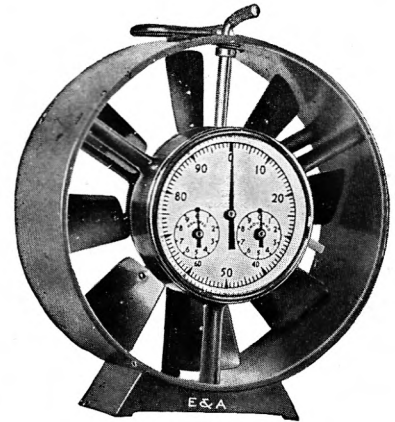
16081.....each 30.00

No. 16082 High Speed Anemometers

For registering the velocity of air currents in blast furnace work and similar operations. For velocities from 500 to 6000 ft. per minute. Four dials reading up to 1000000 ft. by 10-ft. intervals; with disconnecter and zero setting arrangement. Substantial and durable construction. Diameter, 6 in.; weight, 2 1/2 lbs.

In leather pouch; with handle and complete operating directions.

16082.....each 68.00



No. 16081

No. 16083 High Speed Anemometers

For registering velocities of air currents from 1000 to 10000 ft. per minute; three dials reading to 200000 ft.; jeweled movement; disconnecter; zero setting attachment. Diameter, 4 1/2 in.

In leather case; with correction chart.

16083.....each 94.13



No. 16084

No. 16084 Electric Cup Anemometers

For wind velocities in m.p.h.; gray enameled cast iron body; 4-cup type; cups 3 in. in diameter on 4-in. arms; binding posts for connection to bell, buzzer or light circuit. Total height, 16 in.

A closing of the circuit is made for every 25 revolutions and by noting time between circuits velocity of wind can be determined from table furnished.

16084.....each 111.38

Anemometers, Kata Thermometers, see Nos. 16165 and 16167.

Note—To obtain correct results the above anemometers should be used at temperatures not exceeding 300° F.

AIR TESTING APPARATUS

Straight Tube Barometers

One end closed. Length, 36 in. Tube only.

- 16090, Straight..... each .85
- 16092, with Reservoir..... each 1.25

Bunsen Syphon Barometers

Tube graduated in mm.

- 16096, Unfilled..... each 4.00
- 16098, Filled with Mercury..... each 13.00
- 16100, Filled with Mercury and Mounted on Board..... each 15.50

No. 16102 Syphon Barometers

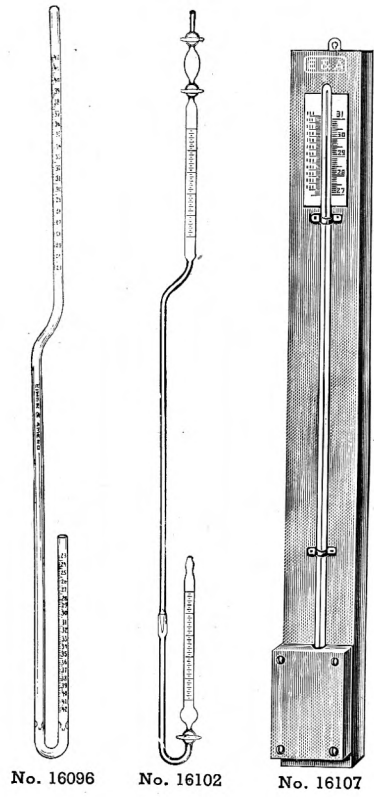
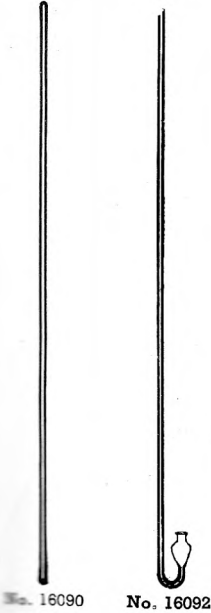
With tight patent stopcocks, graduated in 1/2 mm. Easily filled and emptied. Unfilled.

- 16102..... each 15.75

No. 16107 Mercurial Barometers

For school use. Graduated in in. and mm. Complete on polished mahogany board.

- 16107..... each 10.00



U. S. Signal Service Barometers, Observatory Type

No. 16108

Black oxidized finish; silvered scale, with black filled in figures and graduations. Range, 26 to 32 in. in 1/10 in.; vernier reading to 1/100 in.

Engraved stem thermometer 10° to 120° F. in 1/1° F. **Without board.**

- 16108..... each 58.00

No. 16110

Similar to No. 16108, but range 650 to 830 mm. in 1/1 mm.; vernier reading to 1/10 mm.; thermometer -10° to +50° C. in 1/2° C. **Without board.**

- 16110..... each 58.00

No. 16112

Similar to No. 16108 but graduated in in. and mm. with double scale thermometer in F and C degrees. **Without board.**

- 16112..... each 63.00

No. 16114 Boards

For use with Nos. 16108 to 16112. Mahogany finished, with opal glass reflectors, suspension hook and steadying screws.

- 16114..... each 10.50

No. 16116

Black oxidized frame. Length, 39 in. Fortin type, improved cistern, silvered scales with black filled figures protected by glass cover.

Scale range, 26 to 31 in.; inch and metric scale, with double vernier reading to 1/100 in. and 1/10 mm. **Without board.**

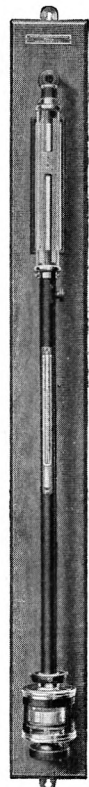
- 16116..... each 112.50

No. 16118 Boards

For No. 16116, 44x4 in. with brackets for mounting. Mahogany finish.

- 16118..... each 10.13

Note—We pack mercury filled barometers with the utmost care; notwithstanding, they are liable to damage in transit. Wherever possible send a messenger.

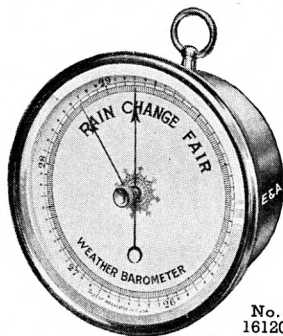


No. 16108 with No. 16114

No. 16116 with No. 16118

AIR TESTING APPARATUS

Aneroid Barometers



No. 16120

Untarnishable enameled dial; diameter, 5 inches. In closed, moisture-proof, lacquered brass case. In cardboard box.

- 16120, Ordinary Movement, Graduated in Inches each 10.80
- 16122, Ordinary Movement, Graduated in Metric Scale each 10.80
- 16124, Better Grade Movement, Graduated in Inches each 12.15
- 16126, Better Grade Movement, Graduated in Metric Scale each 12.15

Stormoguide Aneroid Barometers



No. 16127

Good grade movement. Octagon machined aluminum dial, 3 3/4 in. Satin black finish 5-in. square case, with chromium bezel and trim. In box.

- 16127 each 9.00
- 16127/1, with Altitude Adjustment for 3500 to 7000 feet each 10.35

Pocket Aneroid Barometers

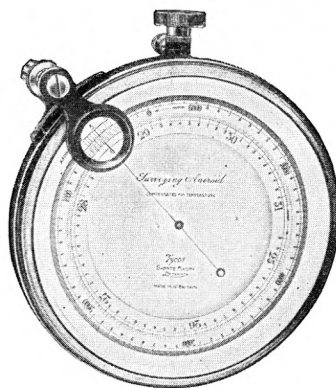


No. 16135

Best grade movement. Gilt case 1 3/4 in.; silvered metal dial. In soft leather pocket carrying case.

- 16135, for Altitudes up to 8000 ft. in 50 ft. Divisions each 31.13
- 16135/1, for Altitudes up to 3000 ft. in 10-ft. Divisions each 33.75
- 16135/2, for Altitudes up to 12000 ft. in 50-ft. Divisions each 33.75
- 16135/3, for Altitudes up to 16000 ft. in 100-ft. Divisions each 37.13

Surveying Aneroid Barometers



No. 16137

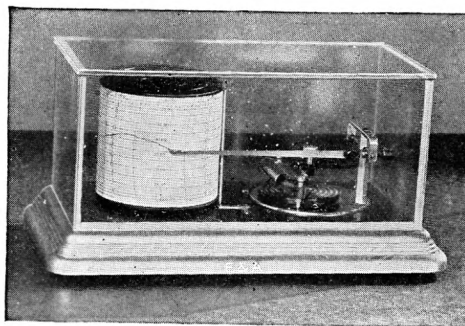
Best grade movement.

Aluminum case 3 in. in diameter; locking device to adjustable altitude scale; reading lens traversing complete circle.

In leather sling case.

- 16137, Dial Range, 6000 ft., Reading by Vernier to 2 ft. each 84.38
- 16137/1, for Altitudes up to 3000 ft., Reading by Vernier to 1 ft. each 88.50

No. 16139 Automatic Recording Barometers



Has high grade barograph movement with fine spring-wound clock.

Base is wood, lacquered in silver and black.

Cover is heavy glass, firmly cemented and snug fitting to prevent dust from entering the case.

Complete with forecast card for displaying weather forecasts; chart box with compartments for charts and ink bottle; one year's supply of charts; and ink.

For altitudes up to 3500 ft.

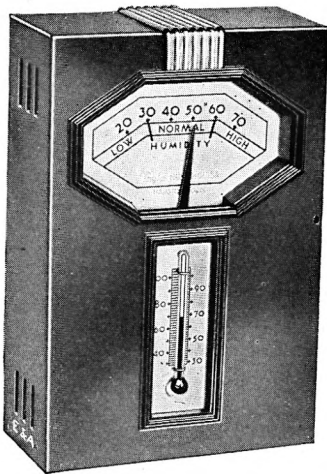
- 16139 each 37.50

Accessories for No. 16139

- 16139a, Charts for 1 Year per set 2.70
- 16139b, Forecast Cards per set 1.80
- 16139c, Bottles of Ink each .50
- 16139D, Bottles of Ink, with Arrangement for Refilling Pen each 1.00
- 16139e, Pens each 1.00

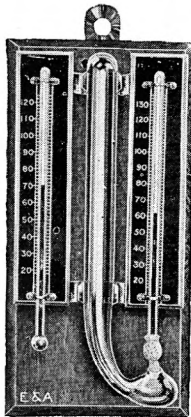
AIR TESTING APPARATUS

No. 16148 Humidiguide Hygrometers



A direct reading hygrometer giving relative humidity and air temperature at a glance.
 The dial is grained aluminum with indoor thermometer to match.
 Case is satin black, 6x4x1 3/4 in., with chrome reed trim.
16148..... each **3.50**

No. 16150 Mason Form Hygrometers



With magnifying mercury filled tubes, black oxidized graduated brass scales; glass syphon bottle; mahogany finish board, size 8 1/2 x 4 1/2 in.
 Range 20° to 120° F.
16150..... each **4.50**

Accessories for No. 16150

- 16150a**, Wet Thermometers..... each **1.80**
- 16150b**, Dry Thermometers..... each **1.80**
- 16150c**, Silk Wicks..... per doz. **.75**
- 16150d**, Water Cisterns..... each **.50**

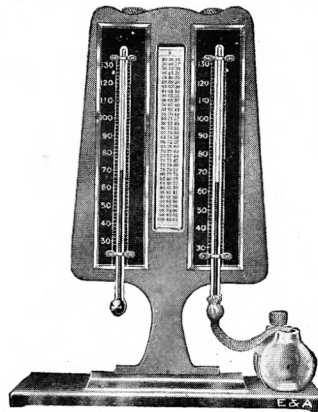
No. 16152 Mason Form Hygrometers

Similar to No. 16150, but mounted on metal panel.
 Range 60° to 220° F.
16152..... each **5.40**

Accessories for No. 16152

- 16152a**, Wet Thermometers..... each **1.80**
 - 16152b**, Dry Thermometers..... each **1.80**
- Use same **Silk Wicks** and **Water Cistern** as listed for No. 16150.

No. 16154 Hygro-Autometer Hygrometers

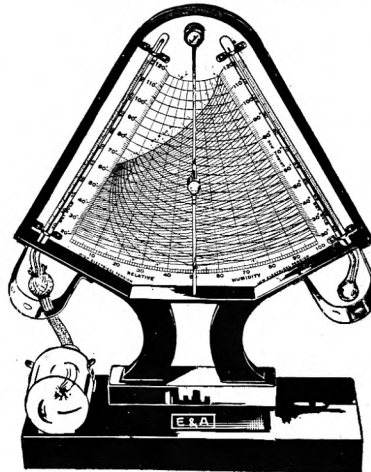


The feature of this hygrometer is the scale fitted between the wet bulb and dry bulb thermometers. By means of a revolving paper chart, the humidity conditions can be determined without reference to tables.
 The roll is turned until the number at the head of the column corresponds with the difference of the readings of the wet bulb and dry bulb thermometers. If the number in the first row corresponding with the reading of the dry bulb is then taken, the figures on the same line in the second row will indicate relative humidity and those on the same line in the third row the dew point. The wet bulb and dry bulb thermometers are similar to those described under No. 16150.
 Range 20° to 120° F, mounted on gray enameled metal frame.
16154..... each **13.60**

Accessories for No. 16154

- 16154a**, Wet Thermometers..... each **1.80**
 - 16154b**, Dry Thermometers..... each **1.80**
 - 16154c**, Water Cisterns..... each **.50**
- Use same **Silk Wicks** as listed for No. 16150.

No. 16156 Hygrodeik Hygrometers



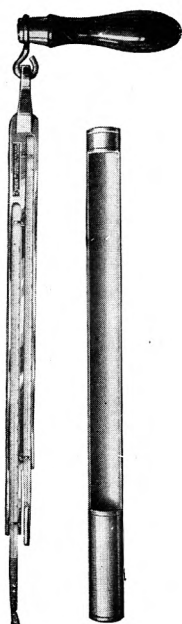
Engraved chart, nickel silver finish, gray enameled brass frame, 10x9x3 1/4 in. Magnifying mercury filled thermometer tubes, glass cistern, silk wick.
 Range 20° to 120° F.
16156..... each **15.00**

Accessories for No. 16156

- 16156a**, Wet Thermometers..... each **2.75**
 - 16156b**, Dry Thermometers..... each **2.75**
- Use same **Water Cistern** as listed for No. 16154.
 Use same **Silk Wicks** as listed for No. 16150.

AIR TESTING APPARATUS

Hygrometers



No. 16160



No. 16162

No. 16160 Sling Psychrometer Hygrometers

For obtaining quicker and more accurate results than are possible with the stationary wet and dry bulb instruments. Scale 30° to 200° F. in 1/1° F.; engraved thermometers 12 in. long mounted on cast aluminum frame, with swivel handle. Complete with copper protecting case, in box with wick and chart.

16160 each 9.50

Accessories for No. 16160

16160a, Wet Thermometers each 3.25
 16160b, Dry Thermometers each 3.25
 16160c, Silk Wicks per doz. .85

No. 16161 Sling Psychrometer Hygrometers

Same as No. 16160, but range 0° to 100° F.

16161 each 9.50

Accessories for No. 16161

16161a, Wet Thermometers each 3.25
 16161b, Dry Thermometers each 3.25
 Use same **Silk Wicks** as listed for No. 16160.

No. 16162 Pocket Sling Psychrometer Hygrometers

Range 0° to 100° F. in 1/1° F. Engraved stem thermometers 5 in. long, mounted on aluminum frame, with chain and swivel. Complete with 7-in. leather carrying case, in box with wick and chart.

16162 each 11.25

Accessories for No. 16162

16162a, Wet Thermometers each 3.25
 16162b, Dry Thermometers each 3.25
 Use same **Silk Wicks** as listed for No. 16160.

Kata Thermometers



No. 16165

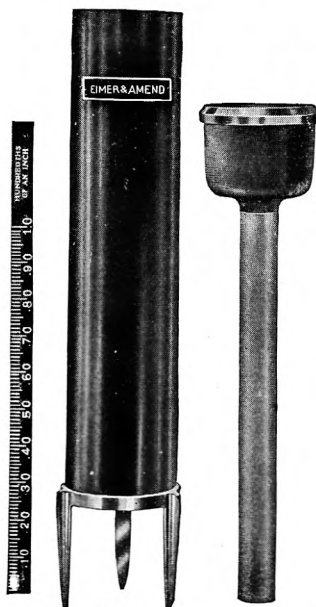
For measuring the **Velocity of Air Currents** in connection with **Ventilation Studies**.

Consists of a very accurate thermometer, with silk netting, so it may be used as a dry thermometer without the netting and as a wet thermometer with the netting.

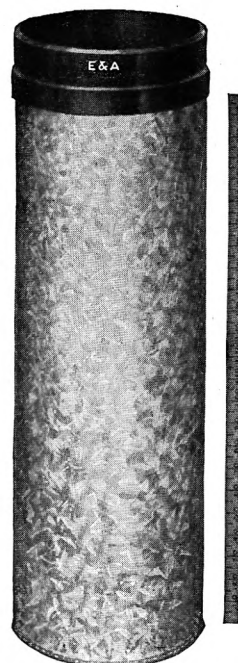
With chart and directions for use.

16165, Graduated at 95° and 100° F. each 15.00
 16167, Graduated at 125° and 130° F. each 17.50

Rain Gauges



No. 16180



No. 16181

Consists of a blue-bronze metal cylinder; height, 13 1/2 in.; with brass rim, inside diameter, 3 in. Has three pointed feet 3 in. long, which hold the gauge upright when forced into the ground; two graduated measuring sticks to show from 0.01 to 1.0 in. of rain fall; overflow slot to take care of rain heavier than 1.0 in.

In corrugated box.
 16180, with Inch Scale each 10.80
 16180/1, with Metric Scale each 10.80

No. 16181 U. S. Weather Bureau Type Rain Gauges

Galvanized metal receiver; height, 27 in. Inside diameter, 8 in. Brass receiver and brass inner container, diameter, 2.53 in. Graduated measuring stick from 0.01 to 2.0 in. of rain; outer case serves as overflow container or as snow gauge when container is removed.

16181 each 14.50

Registering Rain Gauges



Tilting bucket. The rain, which is collected in the square 8-in. roof receiver, passes through a small pipe and drops into one side of a bucket. When 1/100 in. has collected, the bucket overtilts and the dial registers the amount. The rain is then caught in the opposite bucket and the operation is repeated. The large dial registers to 1 in. in 1/100; the small dial reads up to 12 in.

In case, 10x8 in.
 16182, in Japanned Metal Case each 78.75
 16184, in Copper Case each 89.25

THERMOMETERS FOR SPECIAL PURPOSES

Clinical Thermometers

No. 32362

Oral; 1 minute; Magnifying front; with certificate. In hard rubber case with clip.

32362.....each .90 per doz. 9.00

No. 32364

Similar to No. 32362, but Rectal.

32364.....each .90 per doz. 9.00

No. 32368

Similar to No. 32362, Oral, 1 minute, but special grade, selected for open reading scale, wide magnification, perfect etching and appearance.

32368.....each 1.80 per doz. 18.00

No. 32372

Similar to No. 32368, but Rectal.

32372.....each 1.80 per doz. 18.00

No. 32376

Set of 2, one each Nos. 32368 and 32372; in combination case with clip.

32376.....per set 3.60

No. 32377

Oral, 1 minute, Magnifying front with Massachusetts State Seal and Certificate; in hard rubber case with clip.

32377.....each .90 per doz. 9.00

No. 32379

Similar to No. 32377, but Rectal.

32379.....each 1.00 per doz. 12.00

No. 32380

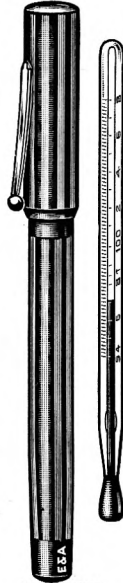
Similar to No. 32362, Oral, 1 minute, but Centigrade scale.

32380.....each .90 per doz. 9.00

No. 32381

Similar to No. 32380, but Rectal.

32381.....each .90 per doz. 9.00



No. 32364

Household Thermometers

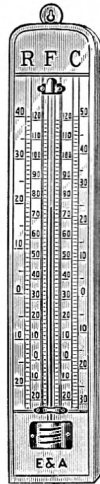
No. 32394

With Magnifying front and 3 scales, viz., Centigrade, Fahrenheit and Reaumur. Scale ranges -30° to +50° C; -20° to +120° F; -24° to +40° R; filled with Mercury.

Mounted on polished wooden frame; length 12 in.

32394.....each 1.75

Thermometers, Hygrometer, see Thermometers, Air.



Incubator Thermometers

No. 32396

Enclosed Milk Glass Scale. Approximate length of stem, 14 cm.

Graduated to Deg. C.....	50	50	50	100
Subdiv., Deg. C.....	1/10	1/5	1/1	1/1
32396.....	each 4.50	4.00	3.25	3.50

No. 25448/6

Milk Glass Scale; graduated 0° to 70° C in 1/2° C. Total length, 21 in. Length below graduated scale, 12 in. Regularly used with the Freas Incubators.

25448/6.....each 7.80

No. 25469

Graduated stem 0° to 60° C in 1/2° C., with special marking at 37 1/2° C. Total length, 12 in.; length below graduated scale, 5 1/2 in. Regularly used with Thelco Incubators.

25469.....each 2.50

No. 25479/9

Paper Scale. Range 0° to 65° C in 1/1° C., with special markings at 37° and 56° C. Total length, about 10 in.; length below scale, 5 in. Regularly used with Elconap Incubators.

25479/9.....each 2.50

No. 25496

Range 0° to 80° C in 1/1° C, with special red graduation at 37 1/2°. Total length, 25 cm.; length below graduated scale, 9.5 cm. Regularly used with the C. S. & E. Incubators.

25496.....each 2.00



No. 32362

Thermometers for Conductivity Cells

For use with Conductivity Cells Nos. 21130 and 21138; Milk Glass Scale. Range 0° to 40° C in 1/5° C.

21138/1.....each 4.50

Thermometers, Fisher, Organic, see No. 32271.

Thermometers for Gas Meters

For use with Gas Meters Nos. 24373 and 24374. Range 40° to 110° F in 1/1° F; without armor.

24375.....each 2.50

Thermometers for Gas Testing Apparatus

For use with Schilling Gas Apparatus No. 24322; Milk Glass Scale. Range -5° to +60° C in 1/5° C.

24322e.....each 2.50

Thermometers, Dairy, see Thermometers, Milk.

Thermometers, Ebullioscope, see Thermometers, Beer, Juerst.

Household Thermometers

No. 32391

Range, approximately -60° to +120° F in 2/1° F. Filled with Red Permacolour, brass finished scale with black figures and graduations. Back, lacquer finished wood. Length over all, 8 in. In cardboard box.

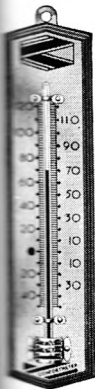
32391.....each .50 per doz. 5.40

No. 32392

With Magnifying front, -30° or 40° to +120° F in 2/1° F; filled with Red Permacolour; on polished wood frame.

Length.....in. 8 10

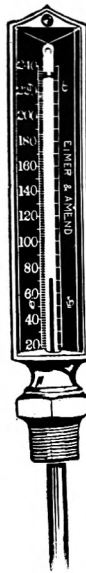
32392.....each 1.10 1.30



No. 32391



No. 32392



No. 32400

Industrial Thermometers

No. 32400

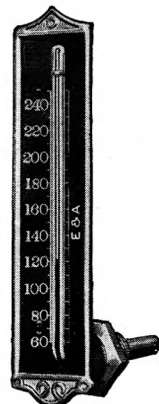
Straight, V shape iron case; black oxidized brass scale with white filled figures. Magnifying front, mercury filled tube. Approximate temperature range, 40° to 240° F in 2/1° F; length of bulb stem, 3 1/2 in.; including 3/4-in. standard pipe thread. Weight in box, about 3 lbs. Length of scale, 7 in.

32400.....each 8.25

No. 32402

Similar to No. 32400, but Right Angle.

32402.....each 9.35

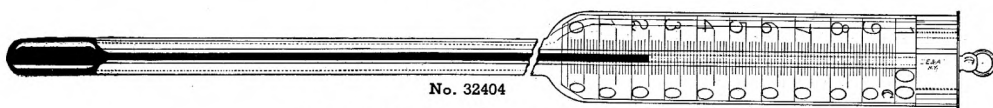


No. 32402

THERMOMETERS FOR SPECIAL PURPOSES

Industrial Thermometers

(Continued)



No. 32404

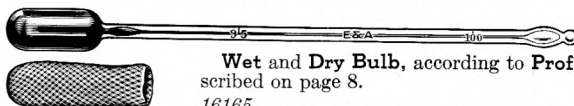
No. 32403 E. & A. Thermometers

For Manufacturing purposes. Enclosed Paper Scale. Illustration similar to No. 32404, but without brass cap. Any range up to 200° C or 400° F.; stem any desired length. Specify immersion desired, scale graduation, length and diameter of stem (3/8 in. is usually furnished, but stems up to 1/2 in. can be supplied). To order.

No. 32404 E. & A. Thermometers

For Manufacturing purposes. Similar to No. 32403, but Enclosed Milk Glass Scale and with brass cap, as shown in illustration. Any range up to 360° C or 600° F. To order. Thermometers, Juerst, see Thermometers, Beer.

No. 16165 Kata Thermometers



Wet and Dry Bulb, according to Prof. Leonard Hill, as described on page 8.

16165.....each 15.00

No. 16167 Kata Thermometers

Similar to No. 16165, but for High Temperature, for recording air velocity.

16167.....each 17.50

Low Temperature Thermometers

No. 32405 E. & A. Thermometers



Engraved Stem, Magnifying front; Centigrade; filled with Special Red Liquid. Range -50° to +50° C in 1/1° C. Length, approximately 30 cm.; diameter, 8 mm.; calibrated for Total immersion.

32405.....each 2.75

No. 32407 Thermometers



Enclosed Milk Glass Scale; Centigrade; filled with Toluene colored Red. Range -100° to +30° C in 1/1° C; approximate length, 30 cm.; diameter, 8 mm.; calibrated for Total immersion.

32407.....each 7.00

No. 32409 E. & A. Thermometers



For the same range as No. 32407; but Engraved Stem with Magnifying front and calibrated for 3-in. immersion. Approximate length, 35 cm.

32409.....each 5.50

No. 32411 Thermometers

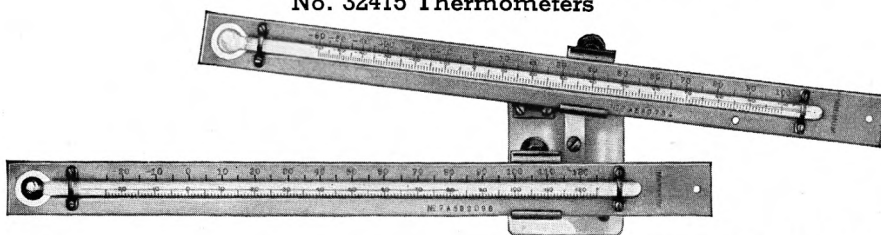
Enclosed Milk Glass Scale; Centigrade; filled with colorless Pentane Mixture. Range -200° to +30° C in 1/1° C; approximate length, 35 cm.

Has thin black line on scale which facilitates greatly the reading of the Pentane meniscus.

32411.....each 13.50

Maximum and Minimum Thermometers

No. 32415 Thermometers



Weather Bureau Type.

Maximum thermometer range -20° to +120° F in 1/1° F.
Minimum thermometer range -60° to +120° F in 1/1° F.

Both thermometers have engraved stem, round bulb and are mounted on graduated Stainless Steel scales to facilitate reading, as shown in illustration.

Including Townsend support for exposing, handling and manipulating setting of thermometers; each thermometer and support in separate box; with certificates of accuracy.

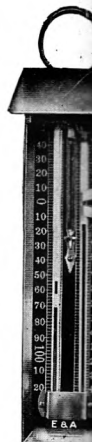
32415.....per set 18.00

Accessories for No. 32415

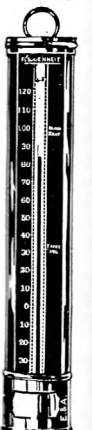
32415a, Maximum Thermometers, Mounted as Described; Range -20° to +120° F in 1/1° F; in Box with Certificate.....each 6.00

32415b, Minimum Thermometers, Mounted as Described; Range -60° to +120° F in 1/1° F; in Box with Certificate.....each 6.00

32415c, Townsend Supports, Consists of Brass Plate with 2 Studs of Unequal Height Having Carriers and Locking Screws for Thermometers; the Taller Support Rotates Freely to Permit Setting of the Maximum Thermometer after Reading; the Shorter Support Makes a Quarter Turn to Enable the Minimum Thermometer To Be Set. In Box.....each 6.00



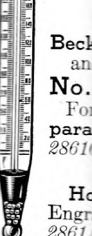
No. 32423 Similar Graduated 32423. Note—Sp Prices upon



No. 32427



No. 2859



No. 2861



No. 2864

THERMOMETERS FOR SPECIAL PURPOSES

Maximum and Minimum Thermometers



No. 32416 Thermometers

Maximum and Minimum, self-registering, best make. Boxwood scale in japanned tin case; white filled figures; 10° to 40° below zero to 120° F above. With magnet. Length.....in. 8 10
32416.....each 3.50 4.50

No. 32418 Thermometers

Maximum and Minimum, self-registering. Plate glass enameled face; metal arms for attaching to window. Length, 10 in. 32418.....each 5.00

No. 32421 E. & A. Thermometers

Maximum, Self-Registering, Engraved Stem; white enamel back; Centigrade, subdivided in 1/1° C. Length, 30 cm.; diameter, 6 mm. Calibrated for Total immersion. Graduated 0° C to Deg. C.... 110 150
32421.....each 3.50 3.75

No. 32423 E. & A. Thermometers

Similar to No. 32421, but Fahrenheit, in 2/1° F. Graduated 0° F to Deg. F..... 220 300
32423.....each 3.50 3.75
Note—Special ranges of Nos. 32421 and 32423, advise requirements. Prices upon Application.

Metal Frame Thermometers

No. 32427 Thermometers

Metal Frame (black japanned tin case); magnifying tube filled with Red liquid; black lacquered metal scale with white figures; graduated from about -30° to +120° F in 2/1° F. Length, 8 in. 32427.....each .90 per doz. 9.00

No. 32429 Thermometers

Similar to No. 32427, but filled with Mercury; range -30° to +220° F in 2/1° F. Length, 12 in. 32429.....each 2.25 per doz. 22.50

No. 32431 Thermometers

Metal Frame (Heavy Copper Case), silvered brass scales; 0° to 240° F in 2/1° F. Length, 12 in. 32431.....each 2.70 per doz. 27.00

Milk (Dairy) Thermometers

No. 28588/9 Thermometers

Floating, Enclosed Paper Scale. 30° to 220° F in 2/1° F. Length, about 20 cm.; diameter, 15 mm. 28588/9.....each .90 per doz. 9.72

No. 28591/1a E. & A. Thermometers

Freezing Point, for use with Hortvet Cryoscope. Range -2° to +1° C in 1/100° C. 28591/1a.....each 20.00

No. 28591/1b E. & A. Thermometers

For use as control thermometer with Hortvet Cryoscope. Range -30° to +30° C in 1/1° C. 28591/1b.....each 5.00

Molecular Weight Thermometers

Beckmann Thermometers, see pages 799 and 800.

No. 28610H E. & A. Thermometers

For use with Beckmann Freezing Point Apparatus No. 28610; -20° to +40° C in 1/1° C. 28610H.....each 2.75

No. 28614D Thermometers

Hortvet, for freezing points below zero. Engraved stem; 0° to -30° C in 0.1° C. 28614D.....each 7.00

No. 28640c Thermometers

Water Differential; for use with Menzies-Wright Molecular Weight Apparatus No. 28640. 28640c.....each 7.25



No. 28588/9



No. 28640c

Oil Testing Thermometers

Thermometers, A.S.T.M., for Oil Tests, see page 801.

Nos. 29249b to 29249H Thermometers

For use with Redwood Viscosimeter No. 29249, described on page 655. Length, 12 1/2 in.
29249b, Range 30° to 150° F. in 1/2° F.....each 4.00
29249C, Range 130° to 260° F in 1/2° F.....each 5.00
29249D, Range 58° to 74° F in 1/5° F.....each 4.00
29249E, Range 92° to 108° F in 1/5° F.....each 4.00
29249F, Range 130° to 146° F in 1/5° F.....each 4.00
29249G, Range 194° to 210° F in 1/5° F.....each 4.00
29249H, Range 240° to 256° F in 1/5° F.....each 4.00

Nos. 29260c and 29260d Thermometers

Milk Glass Scale; for use with Engler Viscosimeter No. 29260. With metal collar. Length, 9 in.
29260c, Range 0° to 50° C in 1/1° C.....each 4.00
29260d, Range 0° to 150° C in 1/1° C.....each 4.50

No. 29280A Thermometers

For use with Scott Viscosimeter No. 29280. Recommended for determining the viscosity of lubricating oils. Range 50° to 120° F in 1/5° F. Length, 10 1/4 in. 29280A.....each 3.50

No. 29347/1a Thermometers

Enclosed Paper Scale, for use with Melting Point Tester for Wax No. 29347/1. Range 90° to 150° F in 1/4° F; calibrated for 2-in. immersion. 29347/1a.....each 3.75
Thermometers, for Organic Laboratory Work, see page 799.

Oven Thermometers

Nos. 29380 and 29418 Thermometers

For use with Freas Electric Ovens. Long stem.
29380, Graduated to 200° C in 1/1° C.....each 5.00
29418, Graduated to 300° C in 1/1° C.....each 6.00

No. 29605 Thermometers

For use with Elconap Ovens Nos. 29603 to 29604/5. Range 0° to 200° C in 1/1° C. 29605.....each 2.50

Thermometer Plummets, see Nos. 16930a, 16935a and 16940a.

Pocket Thermometers

Nos. 32434 and 32436

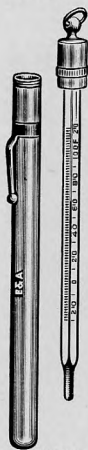
Length, 5 1/2 in.; graduated -30° to +120° F, subdivided in 2/1° F.
32434, in Case.....each 1.35
32436, without Case.....each 1.00

Nos. 32438 and 32440

Length, 5 1/2 in. Graduated 0° to 220° F, subdivided in 2/1° F.
32438, in Case.....each 1.35
32440, without Case.....each 1.00

Nos. 32446 and 32448

Length, 5 1/2 in. Graduated 0° to 100° C, subdivided in 1/1° C.
32446, in Case.....each 1.35
32448, without Case.....each 1.00



No. 32434

Thermometers for Polariscope Tubes

No. 30068 Thermometers

Milk Glass Scale; for use with Polariscope Tubes Nos. 30054, 30064 and 30066. Range 0° to 42° C in 1/10° C. Length, about 8 in. 30068.....each 3.75

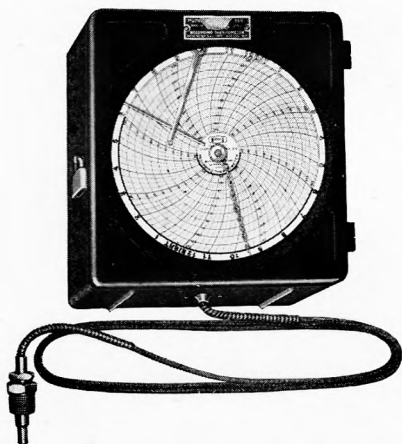
No. 30069 Clerget Thermometers

For use with Polariscope Tubes Nos. 30054, 30064 and 30066; Range 10° to 30° C in 1/10° C. Length, about 6 in. 30069.....each 2.75

THERMOMETERS FOR SPECIAL PURPOSES

Recording Thermometers

No. 32458



Portable, equipped with high grade 24-hour mechanical clock movement.

The bulb, capillary tubing and hollow spring are filled with special liquid, uniformly responsive to temperature changes throughout the entire range.

The thermometer is not affected by altitude or by the temperature of the room in which it is located, nor is it affected by the relative position of the head and bulb.

All readings represent true temperatures at the point where the bulb is inserted.

The compensating spring corrects any variation between the bulb and room temperature by automatically resetting the pen arm to a point on the dial corresponding with the true bulb temperature.

Approximate diameter, 6 in.

In dust and moist proof aluminum case. Movement and actuating parts are made of non-ferrous metals to prevent rust.

Complete with 100 charts of any 1 of the charts listed below; bottle of special recorder ink; ink dropper; padlock and key; also 5 ft. of flexible capillary tubing.

32458 each 31.00

Note—In ordering, specify whether with or without union connection and whether liquid or air tube bulb is desired. For ranges above 350° F there is an extra charge of \$2.00; if supplied with 7-day mechanical clock movement, \$5.00 extra.

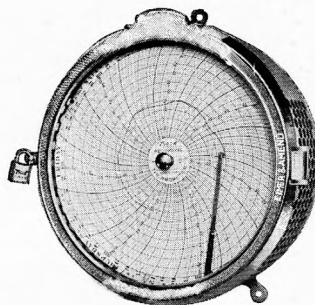
Charts for No. 32458

No.	Temperature Range	Subdivisions
a.	-40° to +140°F	5°
b.	-20° to +120°F	5°
c.	-10° to +110°F	2°
d.	0° to +100°F	2°
e.	0° to +200°F	5°
f.	0° to +250°F	5°
g.	0° to +300°F	5°
h.	+20° to +120°F	2°
hh.	+20° to +220°F	5°
j.	+30° to +150°F	2°
k.	+30° to +300°F	5°
kk.	+32° to +212°F	5°
m.	+50° to +250°F	5°
n.	+50° to +350°F	10°
nn.	+50° to +450°F	10°
p.	+50° to +550°F	10°
q.	+60° to +180°F	2°
r.	+60° to +280°F	5°
s.	+100° to +220°F	2°
t.	+150° to +350°F	5°
u.	0° to +100°C	2°
v.	0° to +80°R (Reaumur)	2°

Charts, as Specified Above..... per 100 1.80

Thermometers, Refractometer, see under Refractometers.

No. 32460



With 24-hr. high grade clock. Adapted to record out of door temperatures or for use in factories, offices, etc., where the temperature is within -40° to +150°F. Approximate diameter, 11 in. Body of case white enameled; solid bronze hinged front, highly polished, with nickel finish. With 100 of any of the 24-hr.

charts listed below, lock and bottle of recorder ink. 32460..... each 52.50

Charts for No. 32460

Period of Revolution 24 Hours			Period of Revolution 7 Days		
No.	Temperature Range	Subdiv.	No.	Temperature Range	Subdiv.
a.	10° to 120°F	2	h.	0° to 100°F	2
b.	0° to 100°F	2	hh.	10° to 120°F	2
c.	0° to 120°F	2	j.	0° to 130°F	2
d.	20° to 150°F	2	k.	20° to 150°F	2
e.	-25° to +30°R.	1	kk.	-20° to +50°C	1
f.	0° to 80°F	1	m.	*0° to 100°F	2
g.	*0° to 100°F	2	n.	*-20° to +80°F	2

Charts, as Specified Above..... per 100 3.00
*Reverse. Reverse charts have the minimum of the temperature range at the circumference instead of at center of chart.

Note—Thermometer No. 32460, supplied with 7-day charts instead of 24-hour charts and with corresponding clock movement, \$4.50 extra.

Nos. 32461 to 32461/2 Electric Alarms

For use with No. 32460, to warn operator when temperature rises above safe operating limits. *Contacts are adjustable to any temperature on chart and are suitable for 1/2 ampere, 110 volts or 1/4 ampere, 220 volts non-inductive load.

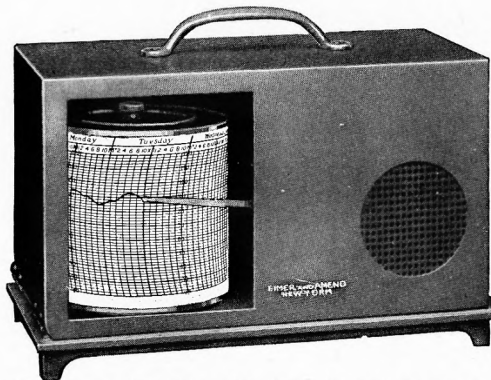
32461, for Indicating Rising Temperature Only..... each 20.00

32461/1, for Indicating Falling Temperature Only..... each 20.00

32461/2, for Indicating Rising and Falling Temp..... each 30.00

*Note—In ordering, give details of electric circuit.

No. 32464



(Thermograph.) Has 7-day jeweled clock movement. Used by Government, and educational institutions. Furnishes a continuous 7-day ink record of temperature. Chart is divided into days and 2-hr. subdivisions. Horizontally the lines are in degrees of temperature. An arm carrying recording pen is connected directly with bi-metallic coil which changes with the temperature. This causes arm, with recording pen attached, to move vertically over chart. Case of metal, gray enameled, 10x4 1/2 x 6 3/8 in. high; weight about 8 lbs. With a year's supply of 1 set of charts No. 84 (0° to 100° F); or No. 84C (-20° to +30° C); or No. 85 (20° to 120° F); or No. 86 (-10° to +90° F); bottle of ink and instructions.

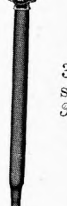
32464, Specify No. of Chart Desired..... each 37.50
32464a, Charts Only, 1 Year's Supply..... per set 3.15



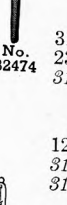
No. 31013



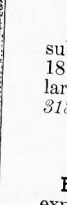
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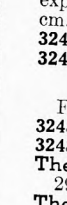
No. 32474



No. 32480



No. 32480



No. 32480



No. 32480

THERMOMETERS FOR SPECIAL PURPOSES

Thermometers for Sand Testing
No. 30816C Sand Thermometers

For use with Jackson Apparatus No. 30816; graduated stem; range 10° to 35° C in 1/5° C. Stem 9 in. long.
 30816C.....each 2.75

Thermometers for Soap Testing
No. 32470

Soap Makers', according to Dr. H. H. Beck, of Franklin & Marshall College. Style same as No. 32403, but filled with Blue alcohol for ease in making readings. Scale 90° to 220° F, in 1/1° F, stem 5 1/2 in. long. Total length, 14 in.
 32470.....each 4.75

Thermometers for Soil Testing
No. 31013

(Hot Bed), Magnifying front; bulb chamber protected by a strong pointed metal end piece; about 30° to 180° F in 2/1° F. Length over all, 15 in.
 31013.....each 2.00

Thermometers for Solder
No. 32474

Of chilled gray iron quite resistant to action of molten metal. Scale length, 12 in.; stem length, 18 in.; diameter, 1 1/8 in. 200° to 950° F.
 32474.....each 29.50
 Note—For continuous use stem should be inserted in iron pipe-well closed at bottom and filled with flake graphite. For temperatures above 950° F, see Pyrometers, pages 703 to 706.

Thermometers for Sublimators
No. 31604tt

For use with Hortvet Sublimators Nos. 31600 and 31604; specially curved to fit sublimation chamber. 50° to 150° C in 1/1° C.
 31604tt.....each 4.50

Thermometers for Sugar Testing
No. 31732f

For use with Spencer Electric Oven No. 31732; 90° to 150° C in 1/1° C. Length, 23.5 cm.
 31732f.....each 2.00

Nos. 31870 and 31871

Sugar Factory; silvered brass scale; in 12-in. copper cup case.
 31870, Range 0° to 150° C in 1/1° C. each 3.35
 31871, Range 0° to 220° F in 2/1° F. each 3.00

No. 31872

Enclosed Paper Scale, range 0° to 50° C; subdivided in 1/1° C. Approximate length, 18 cm.; diameter, 15 mm. (Illustration similar to No. 28588/9.)
 31872.....each .90 per doz. 9.72

Titer Test Thermometers
Nos. 32480 and 32492

Engraved Stem; range -2° to +66° C in 1/5° C; expansion chamber at upper end. Length, about 37 cm.; diameter, 6 mm.
 32480.....each 4.50
 32482, with Nat'l. B. of S. Certificate.....each 10.50

Nos. 32483 and 32484

For use with Solidification Point App. No. 29345.
 32483, Range 80° to 160° F in 1/5° F.....each 4.00
 32484, Range 27° to 71° C in 1/10° C.....each 4.00

Thermometers, Tung Oil, see Nos. 29346/1c and 29346/1D.
 Thermometers, Turpentine, see No. 32755a.
 Thermometers, for Urinometers, see Nos. 18400 and 18402, page 112.

Thermometers for Viscosimeters

Thermometers, A. S. T. M. for Viscosimeters, see page 801.

Nos. 32487 to 32487/2

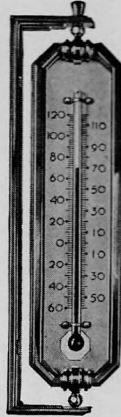
For use with Saybolt Viscosimeter. Engraved stem. Length, 10 3/4 in.
 32487, Range 70° to 110° F in 1/1° F.....each 2.25
 32487/1, Range 100° to 140° F.....each 2.25
 32487/2, Range 180° to 220° F.....each 2.25

Window Thermometers
No. 32489

Tube filled with Red Permacolor. Scale 8 1/2 x 2 in. white vitreous enamel; black figures and graduations filled in for permanence; frame and bracket in polished chrome, adjustable to any position.

Range -60° to +120° F in 2/1° F. Length over all, 11 in. In box.

32489.....each 4.00



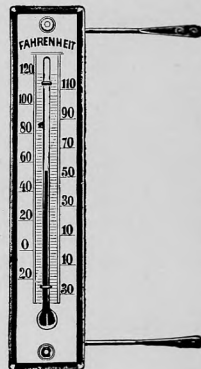
No. 32489

No. 32492

Plate glass frame, white enamel face, black figures; with metal arms for attaching to outside of window.

Scale range, 30° F below zero, to 120° F above.

Length.....in. 8 10
 32492.....each 2.00 2.50



Wood Frame Thermometers
No. 32495

Bath, has magnifying tube filled with Red Permacolor. Scale is 8 in. long; of shaped wood finished in blue green lacquer, with figures, graduations and bath terms in black; blue finished turned wooden handle for easy gripping.

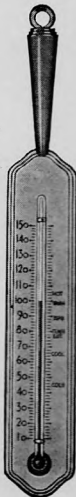
Range 10° to 150° F in 2/1° F. Length, 11 1/2 in.
 32495.....each 1.35 per doz. 13.50

No. 32498

Bath. Enclosed Paper Scale; Mercury filled thermometer tube; range to about 120° F in 2/1° F. Length, 12 in. (Illustration similar to No. 32500.)
 32498.....each .80 per doz. 8.64

No. 32500

Bath, similar to No. 32498, but scale reads to about 240° F and length is 17 in.
 32500.....each 1.00 per doz. 10.80



No. 32495



No. 32500



No. 30816C



No. 32474



No. 32480