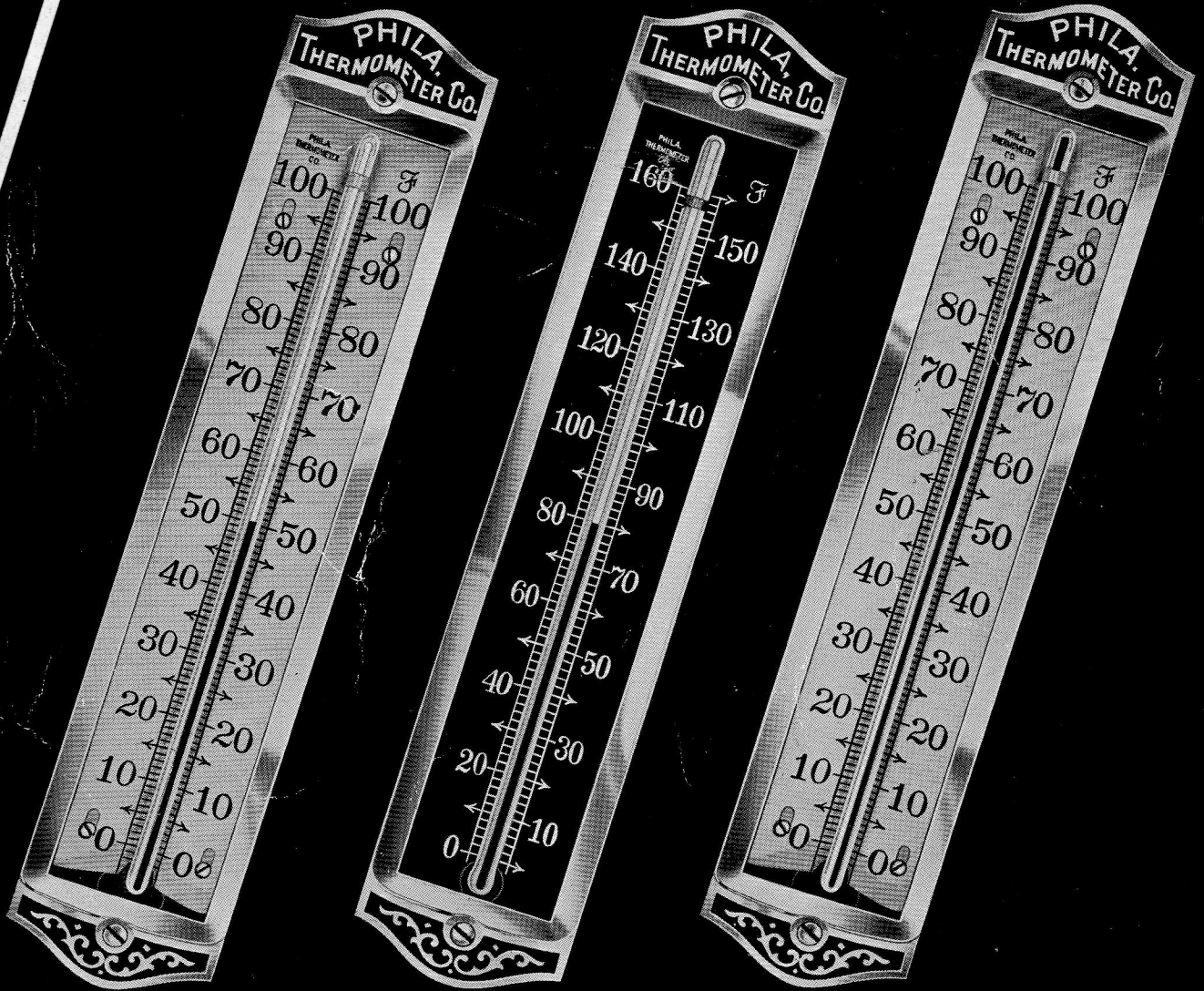


# THE PHILADELPHIA THERMOMETER COMPANY



THERMOMETERS • HYGROMETERS • BAROMETERS • HYDROMETERS

CATALOG No. 103

PHILADELPHIA INDUSTRIAL THERMOMETERS

206 7/1/29

# The PHILADELPHIA THERMOMETER C O M P A N Y

~~915 FILBERT STREET  
PHILADELPHIA, PA.~~

4041 N. 6th St.

Pack 1050

**DISTRIBUTORS**

**ADOLF FRESE CORPORATION**  
116 WEST SEVENTEENTH STREET  
LOS ANGELES, CALIF.

**THE WESTERN MACHINERY COMPANY**  
306 WEST SECOND STREET  
WICHITA, KANSAS

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**Manufacturers of**

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THERMOMETERS and HYDROMETERS

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**For All**

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INDUSTRIAL  
TECHNICAL and LABORATORY  
PURPOSES

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**Since 1905**

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Prices Subject to Discount

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# THE PHILADELPHIA THERMOMETER COMPANY

MANUFACTURERS OF

INDUSTRIAL THERMOMETERS

AND

LABORATORY THERMOMETERS and HYDROMETERS

THE PHILADELPHIA THERMOMETER COMPANY, since its organization in 1905, has devoted all of its time and modern facilities, EXCLUSIVELY, to the manufacture of Thermometers and Hydrometers for use in the Industrial and Laboratory fields. This, combined with the broad technical knowledge, acquired, in the research and development of instruments, for specific applications, in the many diversified industries, we place at your disposal.

We have endeavored to illustrate in this catalog, thermometers which are generally accepted as standard types for their particular application. However, appreciating the fact that conditions prevailing throughout the manufacturing processes differ so widely, and are so innumerable, that you may require special thermometers for your particular requirements, in which case we welcome your inquiries, as we make a specialty of building thermometers to order.

---

# IMPORTANT

## On Orders and Inquiries

### SPECIFY

- 1—Catalog Number.
- 2—Purpose for which it is to be used.
- 3—Temperature Range.
- 4—Size of Pipe Thread.

## RECONDITIONING OF THERMOMETERS

Realizing the fact that a broken or inaccurate thermometer may hinder production or impair uniformity of product, we maintain a department especially for the repair or reconditioning of all makes of thermometers, assuring our customers prompt service at reasonable cost.

Thermometers repaired by us are cleaned out, polished, and lacquered, new tubes and scales are inserted, and so far as possible made to look like a new instrument.

They carry the same guarantee of accuracy as our new thermometers.

### GUARANTEE

We guarantee our instruments to be made of the best of materials and workmanship. They are rigidly inspected and tested before leaving our factory and are guaranteed as to QUALITY AND ACCURACY.

*THE PHILADELPHIA THERMOMETER CO.*

# GENERAL SPECIFICATIONS

## SPECIFICATIONS FOR PHILADELPHIA INDUSTRIAL THERMOMETERS WITH GLASS FRONT

- 1—Scale cases are of cast bronze or aluminum with baked black enamel finish.
- 2—Standard sizes: 7", 9", and 12".
- 3—Cross section V-shape design.
- 4—Frames for glass front, detachable bronze frame highly polished.
- 5—Standard stem connections:  
S. P. T.: Fixed thread, union connection and separable socket.  
Wall Fittings: Fixed flange, flange with locknut and washers, and union connection flange.
- 6—Portable types: Long stem, wood handle, or ring top case.
- 7—Fittings (Page 9).

### TUBES

- 8—Standard white back magnifying lens front tube furnished unless otherwise specified.

### (Optional)

#### Tubes as illustrated on front cover

- 9—Red Reading Mercury, glass tube has a concealed red stripe which is reflected on the mercury column causing mercury to appear red.
- 10—Red Bore back tube. The capillary bore has a red back which remains visible at all times above the mercury column.
- 11—Yellow Back Tube: This type of tube has a yellow colored back instead of white, has a tendency to cast off, or soften the glare of light reflections.

### STANDARD TEMPERATURE RANGES

0°-100° F.	plus 50°-300° F.	} 170°-270° F.      With 200°-400° F.      Pressure Scale
0°-160° F.	plus 50°-400° F.	
minus 40°-120° F.	plus 50°-500° F.	
plus 30°-180° F.	plus 100°-600° F.	
plus 30°-240° F.	plus 200°-750° F.	

Over 750° F and up to 950° F add \$5.00 to list price.

Over 750° F and up to 950° F, furnished in standard white back or red bore back only.

Fahrenheit scale ranges listed above can be supplied in the equivalent Centigrade or Reaumur scale at no extra charge.

For combination scales of Fahrenheit and Centigrade, or Fahrenheit and Reaumur scales, add \$1.00 to list price.

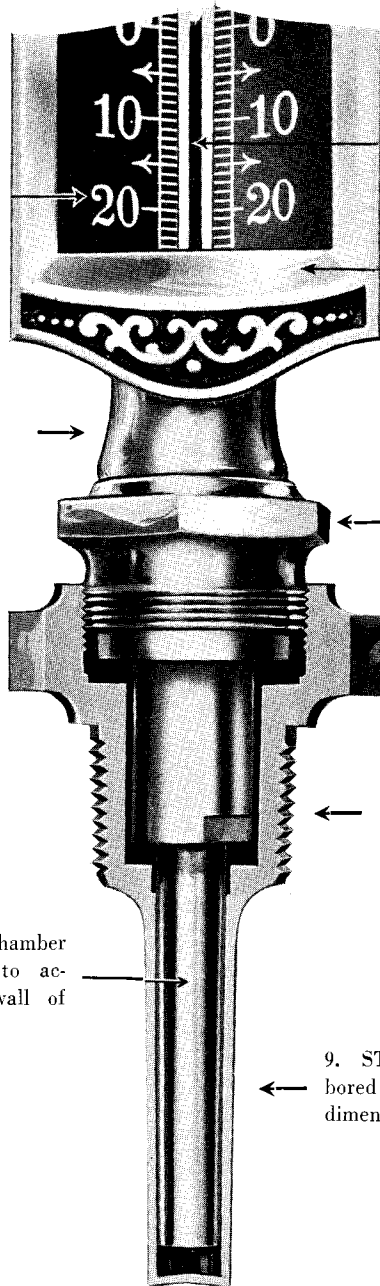
## CAST BRONZE V-SHAPE CASE with DETACHABLE FRAME FRONT (Structural Features)

2. SCALES—Scales are of heavy gauge brass and individually calibrated for each tube, oxidized black with permanent silver deposit lines and easy reading numbers, or silver finished scales with black lines and numbers.

4. HUB—Hub of Bronze V-Shaped Case.

6. HEXAGON—Hexagon wrench head of separable socket.

8. BULB CHAMBER—Bulb Chamber of non-corrosive steel tapered to accurately fit the tapered inner wall of separable socket.



1. TUBES—Tubes are carefully selected with magnifying lens front and filled with a special distilled mercury. The bore above the mercury column is filled with pure nitrogen gas under pressure. All tubes are properly annealed to remove strains and insure constancy.

3. FRAMES—Frame fronts for glass covers are made of same material as case and are interchangeable.

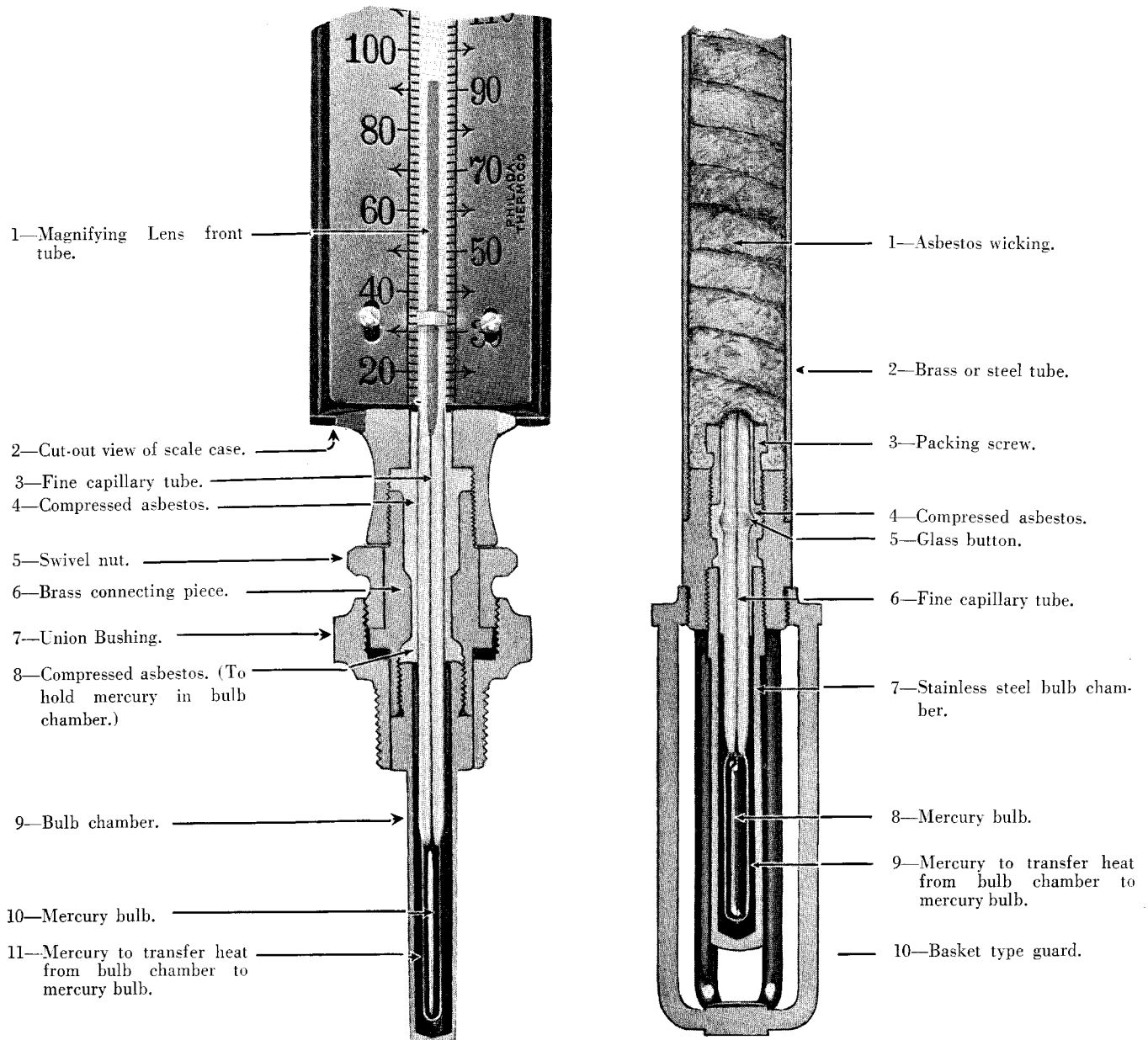
5. SWIVEL—Swivel nut which connects thermometer with union hub, union flange, or separable socket.

7. S. P. T.—Standard Pipe Thread.

9. STEM—Stem of separable socket is bored and taper-reamed to the exact dimensions of the bulb chamber.

# STRUCTURAL SPECIFICATIONS

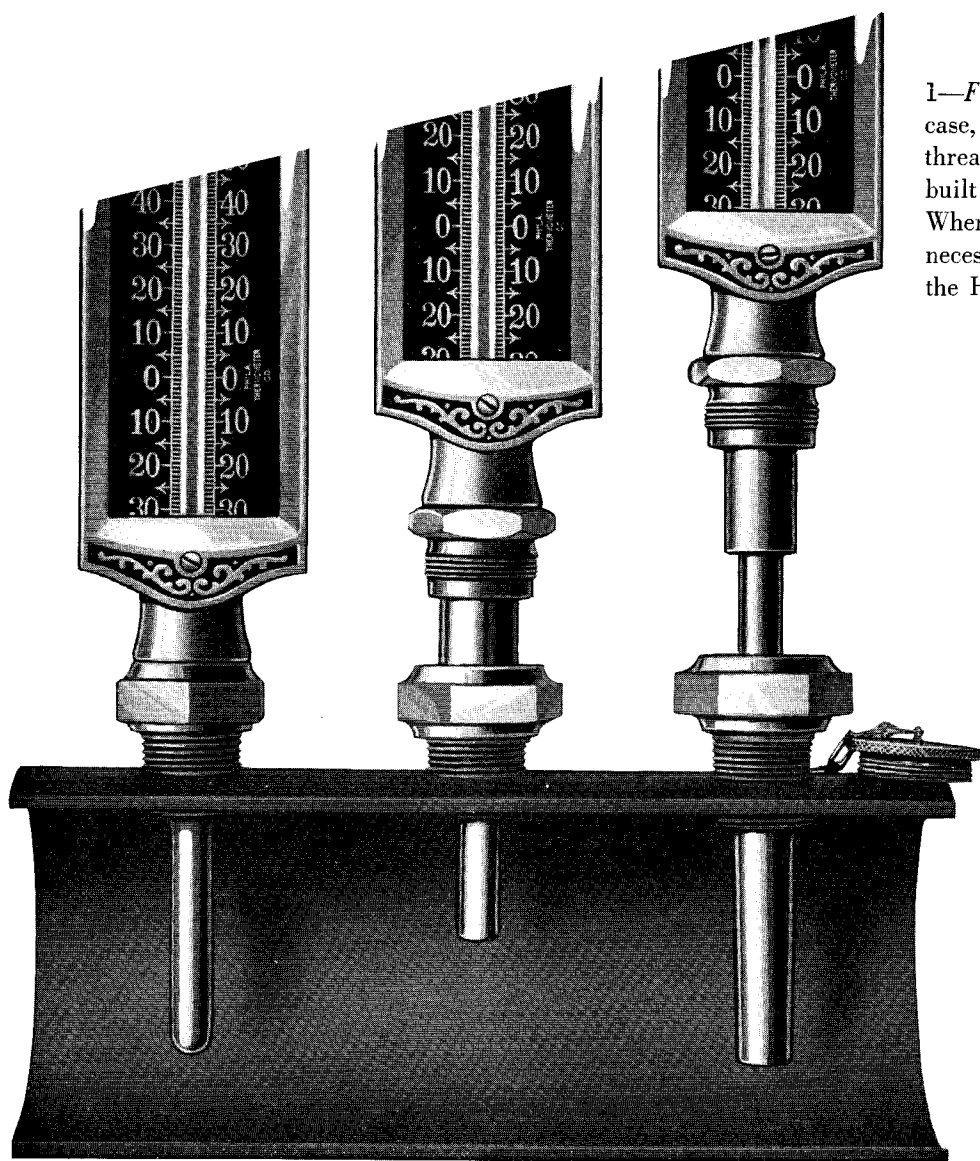
## STRUCTURAL SPECIFICATIONS



## STEM CONNECTIONS FOR STANDARD PIPE THREAD FIXED CONNECTION—UNION CONNECTION SEPARABLE SOCKET CONNECTION

The selection of the proper type connection depends upon the application or use of the thermometer.

The advantages of the various type connections are shown in the assembly of a Fixed Thread Thermometer, a Union Hub, and a Separable Socket; screwed into a cut out section of pipe.



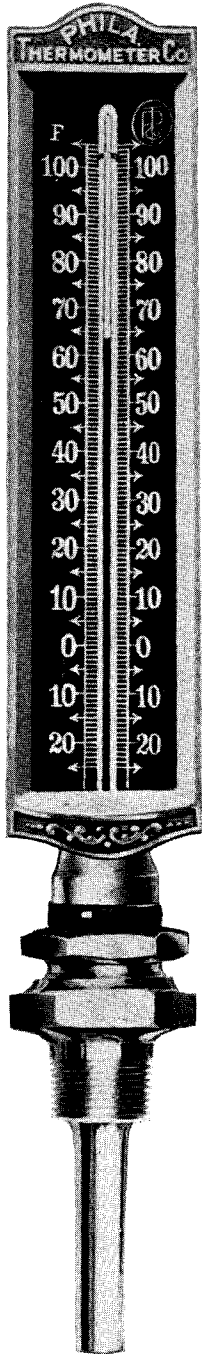
1—*Fixed Thread*; the case, wrench head, pipe thread, and stem are all built into one rigid unit. When installing, the case necessarily rotates with the Hexagon Nut.

2—*Union Connection*; the Union Connection affords a convenient method of attaching a Thermometer. The Union Hub is first screwed into its position, then the Thermometer is inserted and fastened by means of the Swivel Nut.

3—*Separable Socket Connection*; with this type connection the same procedure is followed as the Union Connection. However, the Thermometer may be withdrawn at any time, leaving the socket stationary, thereby keeping the line or apparatus plugged.



# INSULATED FEATURES



STEM-CASE  
INSULATION

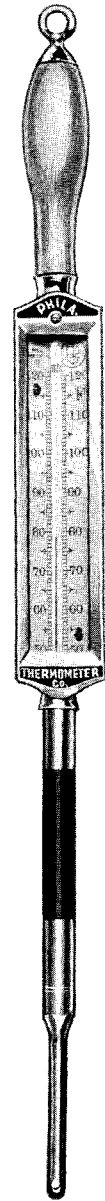
## INSULATED FEATURES

Illustrations on this page depicts a thermometer with a stem-case Insulation and a thermometer with a stem insulation.

The Stem-Case Insulation prevents frosting of the scale case when used on low temperature lines such as Brine.

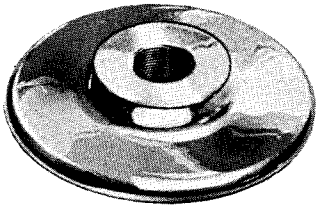
The Stem Insulation is used on thermometers for measuring temperature of air-gases or liquids, not agitated or in circulation and materials that are poor heat conductors such as Dough. With this feature the temperature lag is greatly minimized due to the elimination of heat convection between case and bulb-chamber.

For insulation feature (except where they are specifically listed as insulated). Add \$1.50 to list price.

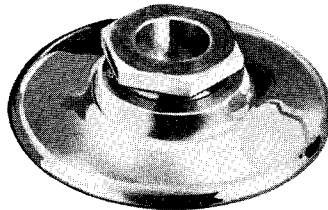


STEM  
INSULATION

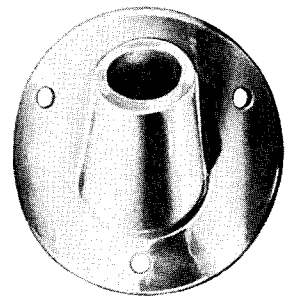
**FITTINGS, Etc.**



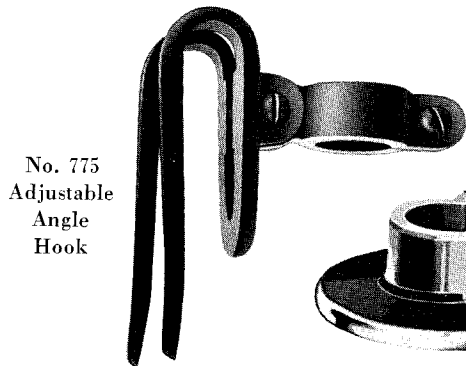
No. 757  
Fixed Flange



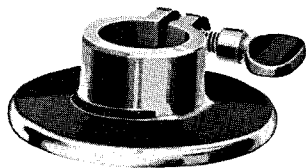
No. 758  
Union Flange With Swivel Nut



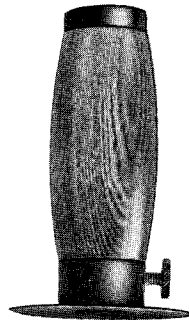
No. 759  
Oblique Angle Concave Flange



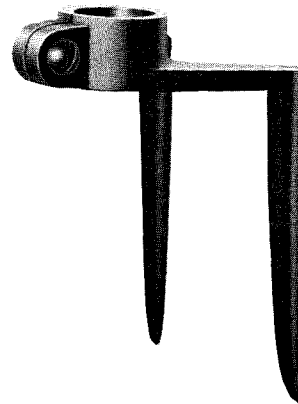
No. 775  
Adjustable  
Angle  
Hook



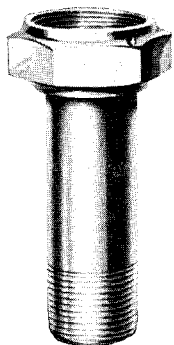
No. 755  
Adjustable Flange



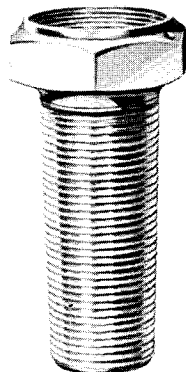
No. 780  
Adjustable  
Stem Handle  
and Flange



No. 750  
Two Prong Hook



No. 765  
Union Connection With  
2 1/2" Extension Neck



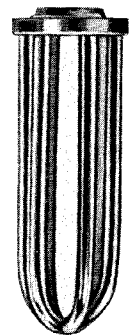
No. 768  
Union Connection With  
Wood Thread



No. 751  
Perforated  
Bulb Guard

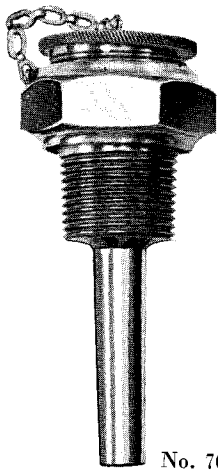


No. 752  
Slotted  
Bulb  
Guard

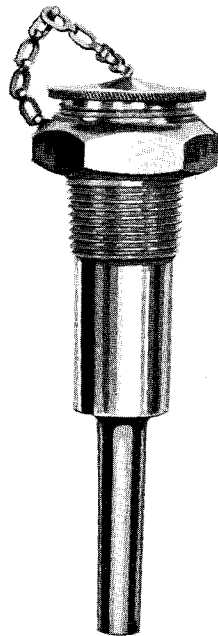


No. 753  
Wire Strand  
Basket Type  
Guard

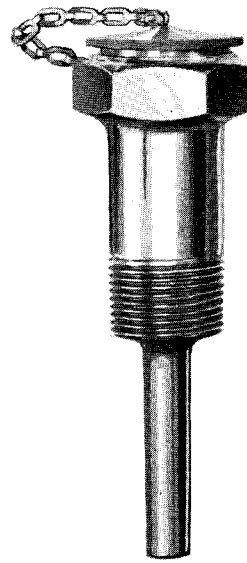
# SEPARABLE SOCKETS



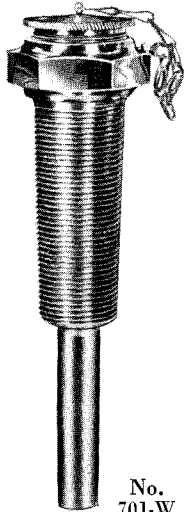
No. 700



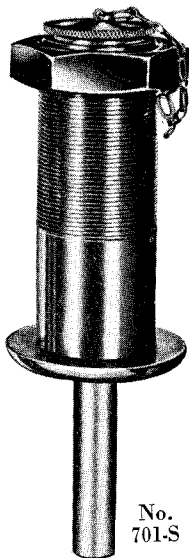
No. 701



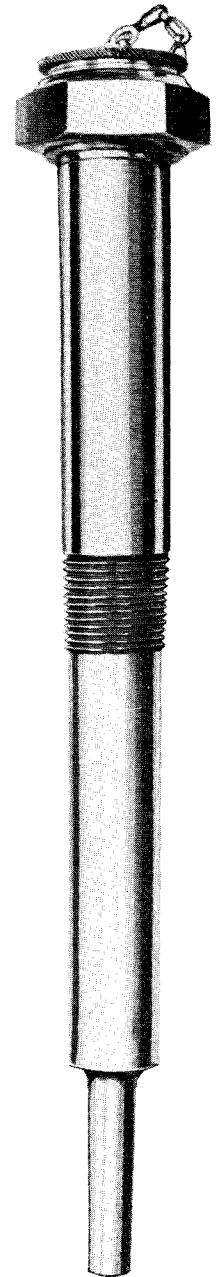
No. 702



No. 701-W



No. 701-S



No. 706

## SEPARABLE SOCKETS for PHILADELPHIA INDUSTRIAL THERMOMETERS

The Separable Sockets are machined and taper reamed to accurately fit the tapered stem or bulb chamber of the thermometer and are equipped with a chained cap to keep socket clean when thermometer is withdrawn from socket.

They are especially adapted to Pipe Lines, Tanks, Kettles, Retorts, or any apparatus where a liquid or pressure tight connection is desirable. The thermometer may be detached at any time leaving the socket stationary, thereby eliminating the closing down or draining of the line or apparatus.

Sockets of same length and pipe thread are interchangeable.

A regular or standard length socket has a stem  $3\frac{1}{2}$ " long including thread.

The extension stem or long stem is a term applied to a socket that has a stem longer than a standard length socket.

The extension neck is a term applied to a socket that has a space between the wrench head and the pipe thread. The length of the extension neck is determined by the thickness of the insulating material.

Wood threaded type socket made of Brass, is used for attaching Separable Socket Thermometers to Wood Tanks, etc. The tapered thread is  $3\frac{1}{2}$ " long with  $2\frac{1}{2}$ " Stem. A hole  $1\frac{1}{32}$ " diameter should be drilled through the wood stave.

Sanitary Socket for open tanks or kettles. This socket has a smooth flanged stem and must be inserted from inside of tank through a hole  $1\frac{1}{2}$ " diameter in the wall of tank. It is then fastened from the outside of tank by means of the locknut and washer.

### SEPARABLE SOCKETS

Socket No.	Stem Length Inc. Thread	Extension Neck	Pipe Thread	Brass or Steel Price Each	Stainless Steel	
					18-8 Price Each	18-8 Price Each
700	$3\frac{1}{2}$ "	X	$\frac{3}{4}$ or 1"	\$5.00	\$12.00	
701	6"	X	$\frac{3}{4}$ or 1"	6.00	15.00	
702	$3\frac{1}{2}$ "	$2\frac{1}{2}$ "	$\frac{3}{4}$ or 1"	6.00	15.00	
703	8"	X	$\frac{3}{4}$ or 1"	7.50	18.00	
704	$5\frac{1}{2}$ "	$2\frac{1}{2}$ "	$\frac{3}{4}$ or 1"	7.50	18.00	
705	10"	X	$\frac{3}{4}$ or 1"	9.00	....	
706	$5\frac{1}{2}$ "	$4\frac{1}{2}$ "	$\frac{3}{4}$ or 1"	9.00	....	
	701-W—Wood Threaded Socket. Thread $3\frac{1}{2}$ " long, $2\frac{1}{2}$ " Stem .....				6.00	....

Sanitary Type Sockets made to order. Prices on request.

# SEPARABLE SOCKET TYPE

## PHILADELPHIA INDUSTRIAL THERMOMETERS

with

## SEPARABLE SOCKETS

*1070  
Advance  
on all list prices*

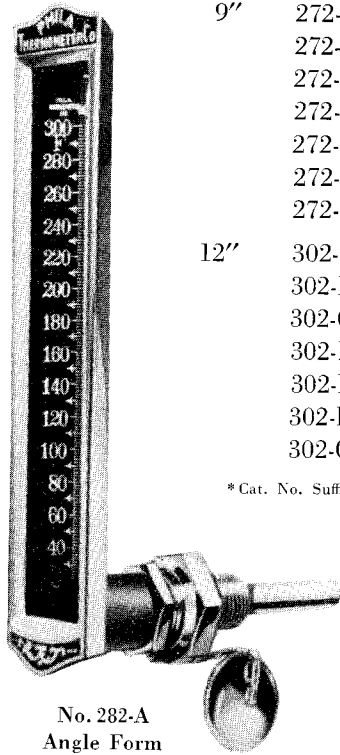
*Cast Bronze V-Shape Case With Glass Front*

### STRAIGHT FORM

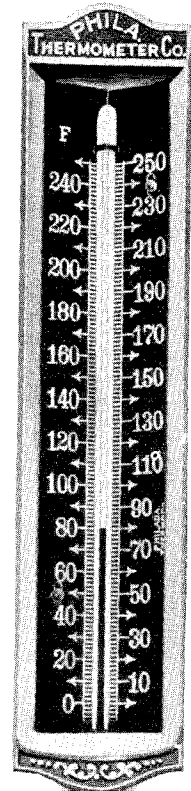
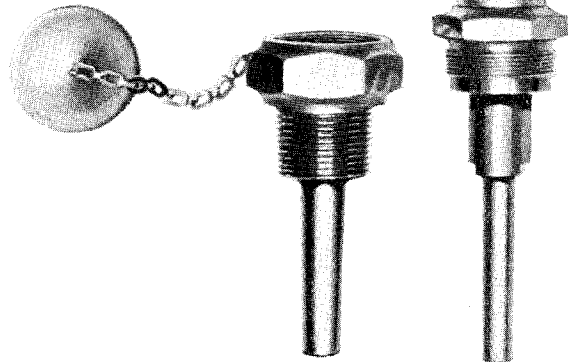
### ANGLE FORM

Scale Case	Cat. No.	Socket No.	Price	Cat. No.	Socket No.	Price
7"	242-A (Std.)	700	\$18.50	252-A (Std.)	700	\$20.50
	242-B	701	20.50	252-B	701	22.50
	242-C	702	20.50	252-C	702	22.50
	242-D	703	22.50	252-D	703	24.50
	242-E	704	22.50	252-E	704	24.50
	242-F	705	24.50	252-F	705	26.50
	242-G	706	24.50	252-G	706	26.50
9"	272-A (Std.)	700	\$21.00	282-A (Std.)	700	\$24.00
	272-B	701	23.00	282-B	701	26.00
	272-C	702	23.00	282-C	702	26.00
	272-D	703	25.00	282-D	703	28.00
	272-E	704	25.00	282-E	704	28.00
	272-F	705	27.00	282-F	705	30.00
	272-G	706	27.00	282-G	706	30.00
12"	302-A (Std.)	700	\$25.00	312-A (Std.)	700	\$28.00
	302-B	701	27.00	312-B	701	30.00
	302-C	702	27.00	312-C	702	30.00
	302-D	703	29.00	312-D	703	32.00
	302-E	704	29.00	312-E	704	32.00
	302-F	705	31.00	312-F	705	34.00
	302-G	706	31.00	312-G	706	34.00

\* Cat. No. Suffix Letter denotes Stem Length.



Socket No.	Stem Length Inc. Thread	Extension Neck
700 (Std.)	3 1/2"	X
701	6"	X
702	3 1/2"	2 1/2"
703	8"	X
704	5 1/2"	2 1/2"
705	10"	X
706	5 1/2"	4 1/2"



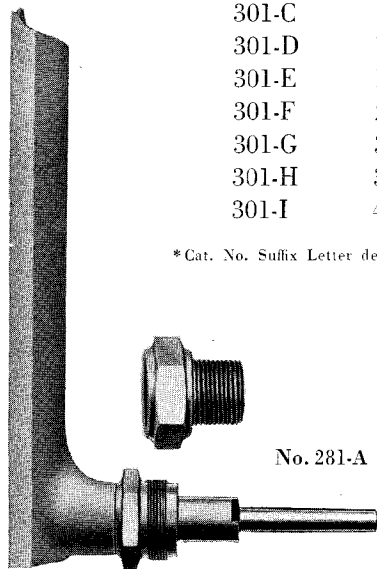
# UNION CONNECTIONS

## PHILADELPHIA INDUSTRIAL THERMOMETERS WITH UNION CONNECTION

*Cast Bronze V-Shape Case With Glass Front*

STRAIGHT FORM				ANGLE FORM		
Scale Case	Cat. No.	Stem Length	Price	Cat. No.	Stem Length	Price
7"	241-A (Std.)	3 1/2"	\$15.50	251-A (Std.)	3 1/2"	\$17.50
	241-B	6"	16.50	251-B	6"	18.50
	241-C	9"	17.50	251-C	9"	19.50
	241-D	12"	18.50	251-D	12"	20.50
	241-E	18"	20.50	251-E	18"	22.50
	241-F	24"	22.50	251-F	24"	24.50
	241-G	30"	24.50	251-G	30"	26.50
9"	271-A (Std.)	3 1/2"	\$18.00	281-A (Std.)	3 1/2"	\$21.00
	271-B	6"	19.00	281-B	6"	22.00
	271-C	9"	20.00	281-C	9"	23.00
	271-D	12"	21.00	281-D	12"	24.00
	271-E	18"	23.00	281-E	18"	26.00
	271-F	24"	25.00	281-F	24"	28.00
	271-G	30"	27.00	281-G	30"	30.00
	271-H	36"	29.00	281-H	36"	32.00
12"	301-A (Std.)	3 1/2"	\$22.00	311-A (Std.)	3 1/2"	\$25.00
	301-B	6"	23.00	311-B	6"	26.00
	301-C	9"	24.00	311-C	9"	27.00
	301-D	12"	25.00	311-D	12"	28.00
	301-E	18"	27.00	311-E	18"	30.00
	301-F	24"	29.00	311-F	24"	32.00
	301-G	30"	31.00	311-G	30"	34.00
	301-H	36"	33.00	311-H	36"	36.00
	301-I	48"	37.00	311-I	48"	40.00

\*Cat. No. Suffix Letter denotes Stem Length.



No. 281-A

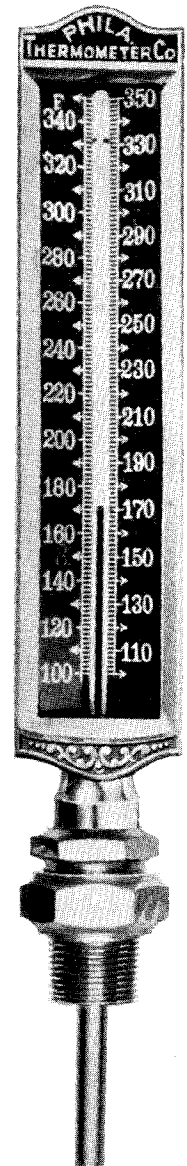
Specify Temperature Range and Size of Pipe Thread.

Stem length is measured from the bottom of Hexagon Wrench Head, to end of bulb chamber; and includes the thread.

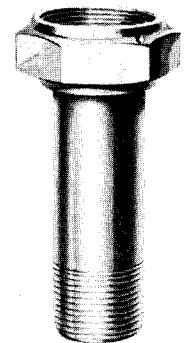
Extension neck is measured from bottom of Hexagon to top of thread. (See No. 756.)

2 1/2" Extension Neck is standard.

If longer neck is desired, add one dollar (\$1.00) per inch to the list above.



No. 271-A



No. 765

Union Connection With 2 1/2" Extension Neck

**PHILADELPHIA INDUSTRIAL THERMOMETERS  
WITH FIXED THREAD CONNECTION**

*Cast Bronze V-Shape Case With Glass Front*

**STRAIGHT FORM**

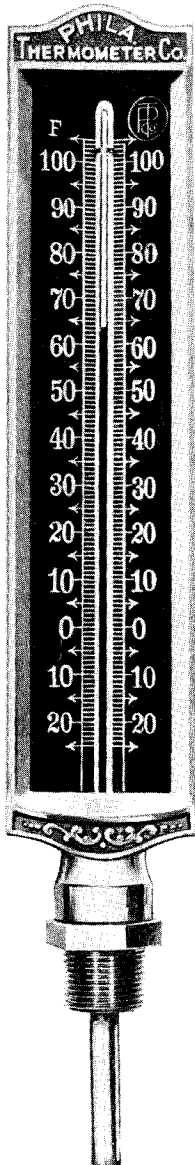
**ANGLE FORM**

Scale Case	Cat. No.	Stem Length	Price	Cat. No.	Stem Length	Price
7"	240-A (Std.)	3½"	\$12.50	250-A (Std.)	3½"	\$14.50
	240-B	6"	13.50	250-B	6"	15.50
	240-C	9"	14.50	250-C	9"	16.50
	240-D	12"	15.50	250-D	12"	17.50
	240-E	18"	17.50	250-E	18"	19.50
	240-F	24"	19.50	250-F	24"	21.50
	240-G	30"	21.50	250-G	30"	23.50
9"	270-A (Std.)	3½"	\$15.00	280-A (Std.)	3½"	\$18.00
	270-B	6"	16.00	280-B	6"	19.00
	270-C	9"	17.00	280-C	9"	20.00
	270-D	12"	18.00	280-D	12"	21.00
	270-E	18"	20.00	280-E	18"	23.00
	270-F	24"	22.00	280-F	24"	25.00
	270-G	30"	24.00	280-G	30"	27.00
12"	300-A (Std.)	3½"	\$19.00	310-A (Std.)	3½"	\$22.00
	300-B	6"	20.00	310-B	6"	23.00
	300-C	9"	21.00	310-C	9"	24.00
	300-D	12"	22.00	310-D	12"	25.00
	300-E	18"	24.00	310-E	18"	27.00
	300-F	24"	26.00	310-F	24"	29.00
	300-G	30"	28.00	310-G	30"	31.00
	300-H	36"	30.00	310-H	36"	33.00
	300-I	48"	34.00	310-I	48"	37.00
	300-J	60"	38.00	310-J	60"	41.00

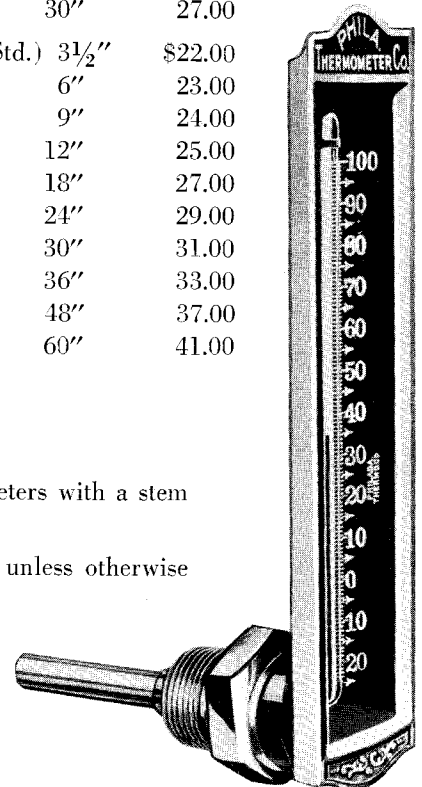
\*Cat. No. Suffix Letter denotes Stem Length.

A ¾" Pipe Thread will be furnished on all thermometers with a stem length up to 24" unless otherwise specified.

Over 24" stem length, a 1" thread will be furnished unless otherwise specified.



No. 270-A



No. 280-A

# SIDE ANGLES

## PHILADELPHIA INDUSTRIAL THERMOMETERS SIDE ANGLES

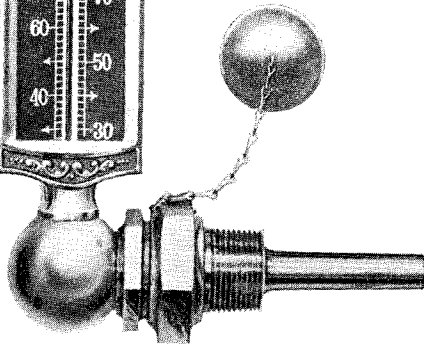
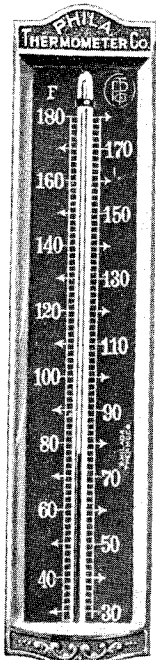
### Cast Bronze V-Shape Case With Glass Front

The Scale face of side angle thermometers is parallel with the stem connections. For overhead installations the case may be inclined. For low installations the case is reclined to permit a direct line of vision.

Scale Case	UNION CONNECTION			SEPARABLE SOCKET		
	Cat. No.	Stem Length	Price	Cat. No.	Socket No.	Price
7"	261-A (Std.)	3½"	\$17.50	262-A (Std.)	700	\$20.50
	261-B	6"	18.50	262-B	701	22.50
	261-C	9"	19.50	262-C	702	22.50
	261-D	12"	20.50	262-D	703	24.50
	261-E	18"	22.50	262-E	704	24.50
	261-F	24"	24.50	262-F	705	26.50
	261-G	30"	26.50	262-G	706	26.50
9"	291-A (Std.)	3½"	\$21.00	292-A (Std.)	700	\$24.00
	291-B	6"	22.00	292-B	701	26.00
	291-C	9"	23.00	292-C	702	26.00
	291-D	12"	24.00	292-D	703	28.00
	291-E	18"	26.00	292-E	704	28.00
	291-F	24"	28.00	292-F	705	30.00
	291-G	30"	30.00	292-G	706	30.00
12"	321-A (Std.)	3½"	\$26.50	322-A (Std.)	700	\$29.50
	321-B	6"	27.50	322-B	701	31.50
	321-C	9"	28.50	322-C	702	31.50
	321-D	12"	29.50	322-D	703	33.50
	321-E	18"	31.50	322-E	704	33.50
	321-F	24"	33.50	322-F	705	35.50
	321-G	30"	35.50	322-G	706	35.50

\* Cat. No. Suffix Letter denotes Stem Length.

Socket No.	Stem Length Inc. Thread	Extension Neck
700	3½"	X
701	6"	X
702	3½"	2½"
703	8"	X
704	5½"	2½"
705	10"	X
706	5½"	4½"



No. 322-A  
Right Side Angle

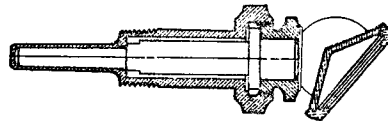
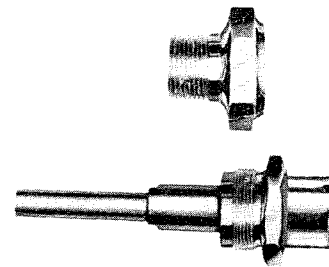
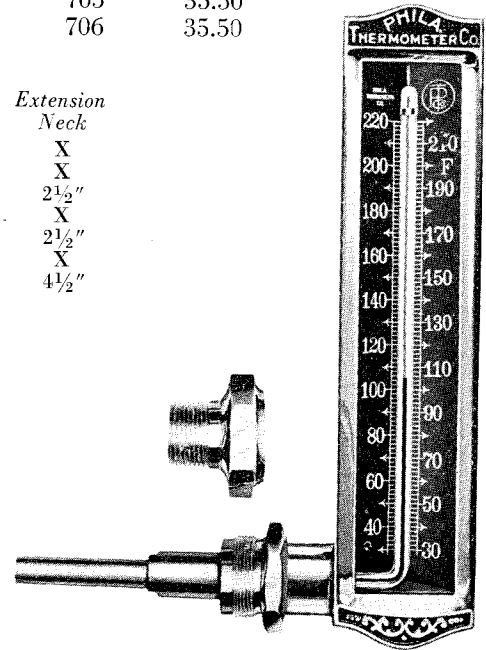


Diagram showing top view of a partial side angle thermometer. Can be ordered to face in any direction. On the 7" and 9" scale case, if a partial side angle form is desired, add \$1.50 to list price.

Right side angle, stem is to right of case. Left side angle, stem is to left of case.



No. 261-A  
Left Side Angle

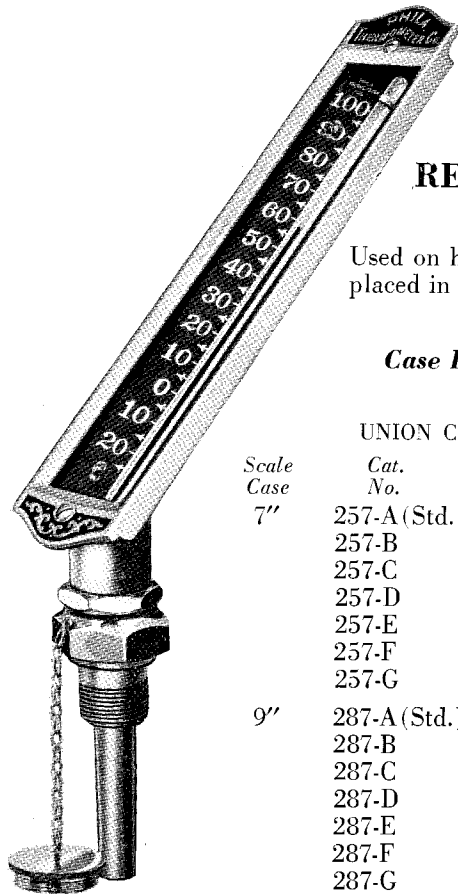
Specify Temperature Range and Size of Thread.

## PHILADELPHIA INDUSTRIAL THERMOMETERS

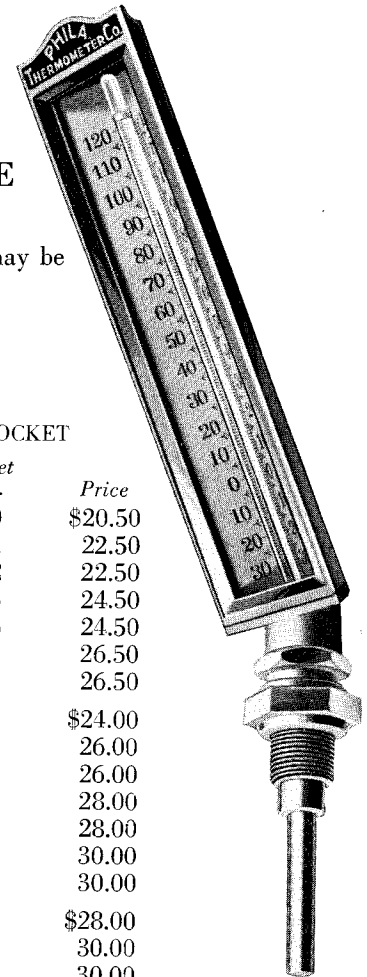
### RECLINED or INCLINED ANGLE

Used on high or low installations so that scale face may be placed in direct line of vision.

#### Case Bronze V-Shape Case With Glass Front



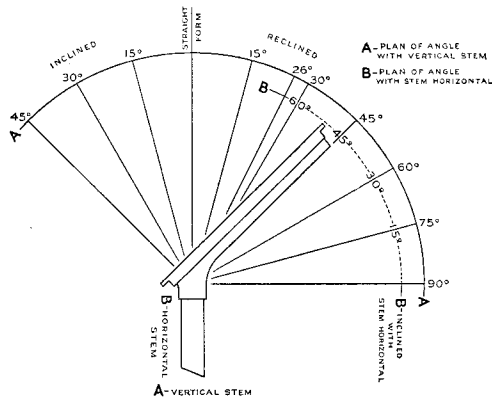
45° Reclined Angle



45° Inclined Angle

Scale Case	UNION CONNECTION			SEPARABLE SOCKET		
	Cat. No.	Stem Length	Price	Cat. No.	Socket No.	Price
7"	257-A (Std.)	3 1/2"	\$17.50	255-A (Std.)	700	\$20.50
	257-B	6"	18.50	255-B	701	22.50
	257-C	9"	19.50	255-C	702	22.50
	257-D	12"	20.50	255-D	703	24.50
	257-E	18"	22.50	255-E	704	24.50
	257-F	24"	24.50	255-F	705	26.50
	257-G	30"	26.50	255-G	706	26.50
9"	287-A (Std.)	3 1/2"	\$21.00	285-A (Std.)	700	\$24.00
	287-B	6"	22.00	285-B	701	26.00
	287-C	9"	23.00	285-C	702	26.00
	287-D	12"	24.00	285-D	703	28.00
	287-E	18"	26.00	285-E	704	28.00
	287-F	24"	28.00	285-F	705	30.00
	287-G	30"	30.00	285-G	706	30.00
12"	317-A (Std.)	3 1/2"	\$25.00	315-A (Std.)	700	\$28.00
	317-B	6"	26.00	315-B	701	30.00
	317-C	9"	27.00	315-C	702	30.00
	317-D	12"	28.00	315-D	703	32.00
	317-E	18"	30.00	315-E	704	32.00
	317-F	24"	32.00	315-F	705	34.00
	317-G	30"	34.00	315-G	706	34.00

\* Cat. No. Suffix Letter Denotes Stem Length.



Plan of Angle for Reclined or Inclined Case Thermometers.

Important: In ordering be sure to specify degree of angle.

Socket No.	Stem Length Inc. Thread	Extension Neck
700 (Std.)	3 1/2"	X
701	6"	X
702	3 1/2"	2 1/2"
703	8"	X
704	5 1/2"	2 1/2"
705	10"	X
706	5 1/2"	4 1/2"

Specify Temperature Range and Size of Pipe Thread.



# MOISTURE PROOF

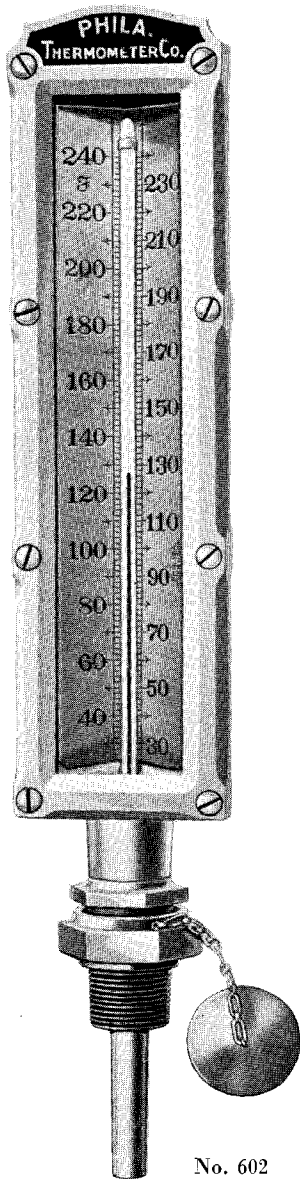
## PHILADELPHIA

### SUPER SERVICE INDUSTRIAL THERMOMETERS

The Scale Case and Frame of our Super Service Thermometers are made of cast Aluminum with a plate glass cover  $\frac{1}{4}$ " thick. The back of frame and front of scale case are ground perfectly flat and when bolted firmly together form a seal tight connection making the interior of the scale case dust-proof and moisture proof.

While built primarily to withstand hard service, they retain all the refinements of construction inherent in our standard Industrial Thermometers.

Made in the 9" and 12" size cases, straight and angle forms with the various types of stem connections.



No. 602

#### STRAIGHT FORM

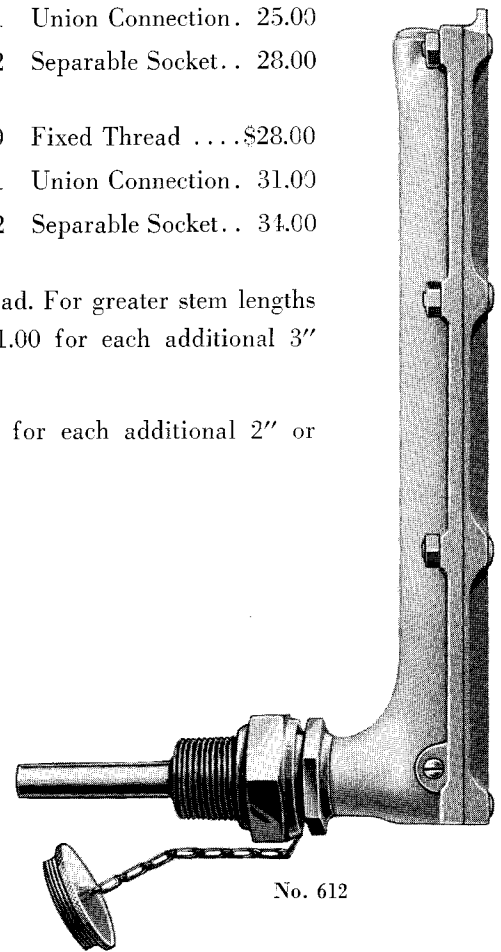
Scale Case	Cat. No.	Stem Connection	Price
9"	600	Fixed Thread . . .	\$19.00
	601	Union Connection .	22.00
	602	Separable Socket . .	25.00
12"	650	Fixed Thread . . .	\$25.00
	651	Union Connection .	28.00
	652	Separable Socket . .	31.00

#### ANGLE FORM

Cat. No.	Stem Connection	Price	
610	Fixed Thread . . .	\$22.00	
	611	Union Connection .	25.00
	612	Separable Socket . .	28.00
660	Fixed Thread . . .	\$28.00	
	661	Union Connection .	31.00
	662	Separable Socket . .	34.00

Stem lengths listed above,  $3\frac{1}{2}$ " including thread. For greater stem lengths on fixed thread or union connection, add \$1.00 for each additional 3" or fraction thereof.

For separable socket connections add \$2.00 for each additional 2" or fraction thereof.



No. 612

**PHILADELPHIA**  
**THERMO-GAGE TYPE THERMOMETER**  
 (Moisture Proof)

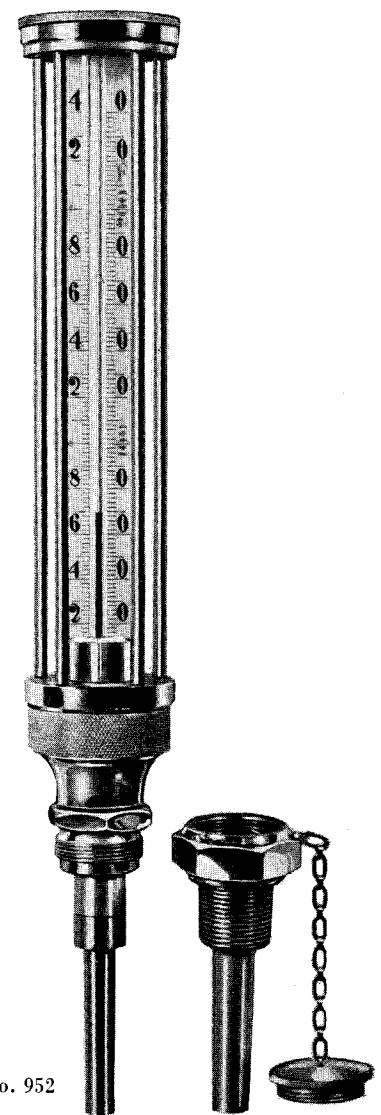
This type instrument is a departure from the usual V-Shape metal case thermometer in as much that the tube and scale are enclosed in a heavy Pyrex Glass tube approximately 1 1/4" in diameter which in turn is protected by stainless steel bars. The design of the protecting case is such as to hold the Pyrex Glass Jacket firmly between gaskets keeping the interior dust-proof and sweat-proof.

Made in the 7" and 9" Scale Case sizes, straight and angle forms with the various types of stem connections. Chrome-plated finish.

Case Scale	STRAIGHT FORM			ANGLE FORM		
	Cat. No.	Stem Connection	Price	Cat. No.	Stem Connection	Price
7"	900	Fixed Thread . . .	\$14.50	910	Fixed Thread . . .	\$16.50
	901	Union Connection.	17.50	911	Union Connection.	19.50
	902	Separable Socket..	20.50	912	Separable Socket..	22.50
9"	950	Fixed Thread . . .	\$17.00	960	Fixed Thread . . .	\$20.00
	951	Union Connection.	20.00	961	Union Connection.	23.00
	952	Separable Socket..	23.00	962	Separable Socket..	26.00

Stem lengths listed above, 3 1/2" including thread. For greater stem length on fixed thread or union connection add \$1.00 for each additional 3" or fraction thereof.

For separable socket connection add \$2.00 for each additional 2" or fraction thereof.



No. 952

# LONG STEM HANDLE TOP

## PHILADELPHIA LONG STEM THERMOMETERS

BAKER'S  
See page 31

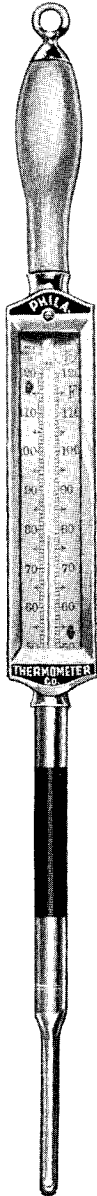
*Cast V-Shape Cases (Aluminum or Bronze)  
with Wood Handle and Glass Front*

Portable Type Thermometers for use in open kettles, tanks, etc. 7" and 10" Scale Cases.

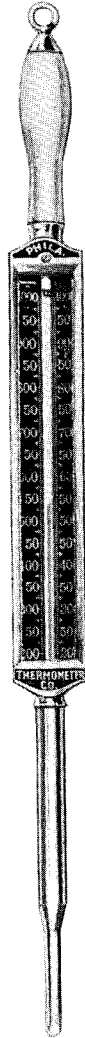
DIE CASTING  
See page 34

DAIRY  
See page 29

CONFECTIONERS  
See page 30



No. 379



No. 374



No. 375



No. 382

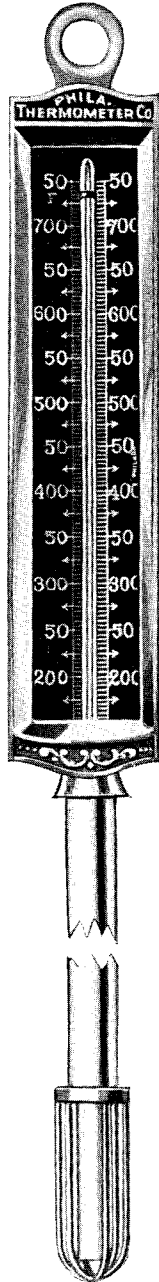
An illustrated group of long stem, wood-handled thermometers for specific applications. They are readily adaptable to other uses whenever the medium to be tested is in an open kettle, etc. Temperature ranges to suit.

Prices and description will be found on pages under caption.

**PHILADELPHIA LONG STEM THERMOMETERS**

*Cast V-Shape Case (Aluminum or Bronze)  
with Ring Top and Glass Front  
12" Scale Case*

VARNISH  
OIL TEMPERING  
(See Page 21)



No. 358

MOLTEN METAL  
(See Page 34)



No. 351

MOISTURE  
PROOF  
(See Page 20)



No. 357-S

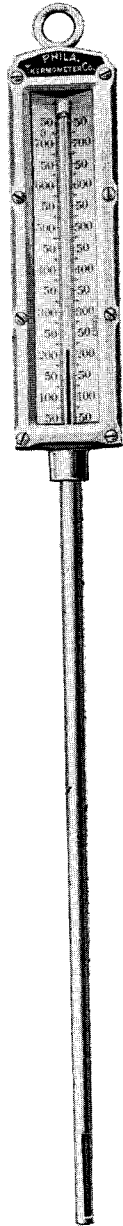
This group of long stem thermometers shows a 12" Scale Case with ring top. As stated on preceding page, their applications are so diversified that we make them with any temperature range desired.

Prices and descriptions will be found on page shown under caption.

# MOISTURE PROOF, LONG STEM

## PHILADELPHIA SUPER SERVICE CASE THERMOMETER (Portable Type)

This thermometer is equipped with the same type case as described on Page 16, with the exception that case has a ring top for suspension purposes.



No. 357-S

### 12" Scale Case

With Adjustable Hook  
or Flange

<i>Cat. No.</i>	<i>Stem Length</i>	<i>Price</i>
354-S	12"	\$24.00
355-S	18"	26.00
356-S	24"	28.00
357-S	30"	30.00
358-S	36"	32.00
359-S	48"	36.00
360-S	60"	41.00
361-S	72"	47.00
362-S	80"	53.00

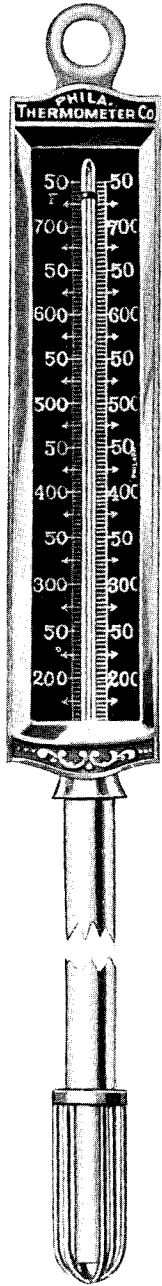
STANDARD RANGES {  
 —40°-120° F.  
 30°-180° F.  
 30°-240° F.  
 50°-400° F.  
 100°-500° F.  
 200°-750° F.

IN ORDERING SPECIFY {  
 Purpose to be used.  
 Working Range.  
 Depth of Immersion.

# FOR TANKS, KETTLES, VATS, ETC.

## PHILADELPHIA LONG STEM THERMOMETERS TANKS—KETTLES—VATS—ETC.

Cast (Aluminum or Bronze) V-Shape Case with Glass Front. Designed for ruggedness and sensitivity for testing temperature of varnish, oils, liquids, etc.



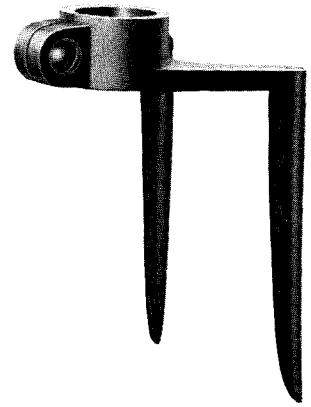
No. 358

### 12" SCALE CASE

<i>Cat. No.</i>	<i>Length of Stem</i>	<i>Price</i>
354	12"	\$18.00
355	18"	20.00
356	24"	22.00
357	30"	24.00
358	36"	26.00
359	48"	30.00
360	60"	35.00
361	72"	41.00
362	84"	48.00

In ordering specify { Purpose intended.  
Working range.  
Average depth thermometer will be immersed.

STOCK RANGE { Minus 40°-120° F  
Plus 30°-180° F  
30°-240° F  
50°-400° F  
100°-500° F  
200°-750° F



No. 750



No. 775

## PHILADELPHIA INDUSTRIAL THERMOMETERS

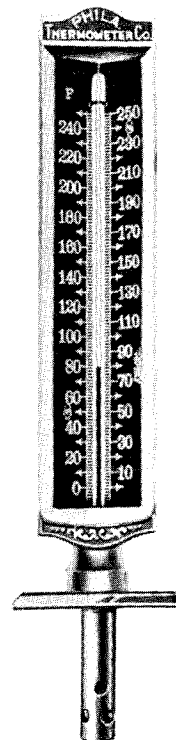
With Wall Fittings For

### AIR DUCTS—DRYERS—OVENS

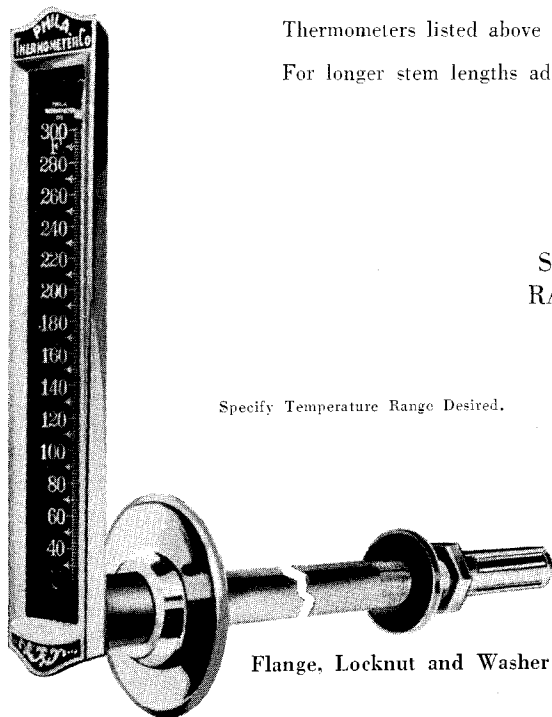
Cast Bronze V-Shape Case With Glass Front

STRAIGHT FORM				ANGLE FORM			
Scale	Cat. No.	Stem Connection	Price	Cat. No.	Stem Connection	Price	
9"	205	Fixed Flange . . . . .	\$15.00	210	Fixed Flange . . . . .	\$18.00	
	206	Flange, Locknut and Washer . . . . .	16.00	211	Flange, Locknut and Washer . . . . .	19.00	
	207	Flange with Union Connection . . . . .	18.00	212	Flange with Union Connection . . . . .	21.00	
12"	225	Fixed Flange . . . . .	\$19.00	230	Fixed Flange . . . . .	\$22.00	
	226	Flange, Locknut and Washer . . . . .	20.00	231	Flange, Locknut and Washer . . . . .	23.00	
	227	Flange with Union Connection . . . . .	22.00	232	Flange with Union Connection . . . . .	25.00	

Thermometers listed above have 4" stem. Stem length measured from Flange. For longer stem lengths add \$1.00 for each additional 3" or fraction thereof.



Fixed Flange

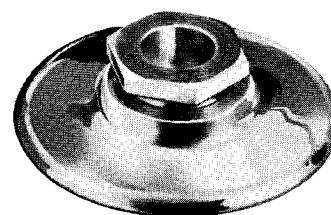


Flange, Locknut and Washer

STOCK RANGES

- 0°-100° F
- 0°-160° F
- 50°-300° F
- 100°-500° F
- 200°-750° F

Specify Temperature Range Desired.



No. 758  
Flange With Union Connection

**PHILADELPHIA BAKELITE CASE THERMOMETERS**

The Bakelite Case has a 7" open face scale of V-Shape design. Will not corrode or rust, and on low temperature installations, the case will not frost over. Temperature Lag is reduced to a minimum. Furnished with S. P. T. connections for Pipe Lines, etc., or with Wall Fittings for Air Ducts, etc.

**7" Open Face V-Case**

S. P. T. Connections

STRAIGHT FORM

Cat. No.	Stem Connection	Price
60-B	Fixed Thread	\$6.50
61-B	Union Connection	9.50
62-B	Separable Socket	12.50

ANGLE FORM

Cat. No.	Stem Connection	Price
70-B	Fixed Thread	\$8.00
71-B	Union Connection	11.00
72-B	Separable Socket	14.00

Stem Length 3 1/2" Including Thread

3/4" S. P. T. Will Be Furnished Unless Otherwise Specified

**WALL FITTING CONNECTIONS**

(Air Ducts, Etc.)

**4" Stem**

STRAIGHT FORM

Cat. No.	Stem Connection	Price
63-B	Fixed Flange	\$6.50
64-B	Flange, Locknut and Washers	7.50
65-B	Flange With Union Connection	9.50

ANGLE FORM

Cat. No.	Stem Connection	Price
73-B	Fixed Flange	\$8.00
74-B	Flange, Locknut and Washers	9.00
75-B	Flange With Union Connection	11.00

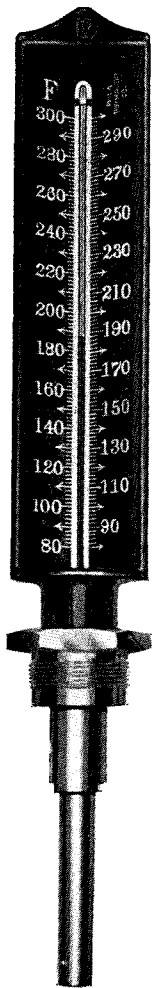
**For Longer Stems**

On Fixed Thread, Flange, or Union Connection Type—Each additional 3" or fraction thereof, add \$1.00 to list.

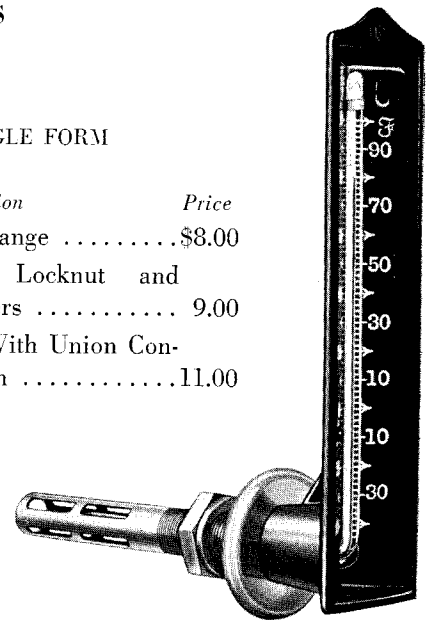
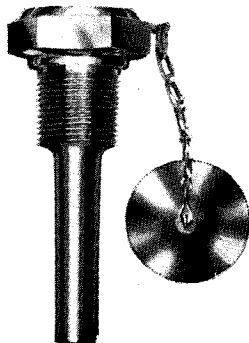
On Separable Connections—Each additional 2" or fraction thereof, add \$2.00 to list.

For Bakelite case with frame and glass front add \$2.00 to list. Scale range up to 300° F.

Specify temperature range and size of pipe thread.



No. 62-B



No. 74-B

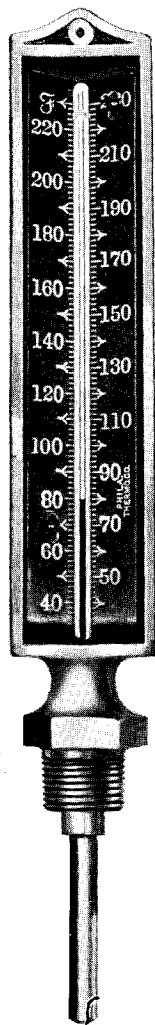


**PHILADELPHIA**

**OPEN FACE V-SHAPE CASE THERMOMETERS**

**for Pipe Lines and Wall Connections**

This thermometer is made in the 7" and 9" scale case size of iron (Nickel-plated) or Bronze. Furnished with standard connections for pipe threads or wall fittings. Prices listed below are for the Iron Scale Case Thermometers only. For Bronze Case add \$1.00 to list.



No. 60

**PIPE THREAD CONNECTIONS**

STRAIGHT FORM				ANGLE FORM		
Scale Case	Cat. No.	Stem Connection	Price	Cat. No.	Stem Connection	Price
7"	60	Fixed Thread . . . . .	\$7.00	70	Fixed Thread . . . . .	\$8.50
	61	Union Connection . . . . .	10.00	71	Union Connection . . . . .	11.50
	62	Separable Socket . . . . .	13.00	72	Separable Socket . . . . .	14.50
9"	90	Fixed Thread . . . . .	9.00	100	Fixed Thread . . . . .	10.50
	91	Union Connection . . . . .	12.00	101	Union Connection . . . . .	13.50
	92	Separable Socket . . . . .	15.00	102	Separable Socket . . . . .	16.50

3/4" S. P. Thread Will Be Furnished Unless Otherwise Specified  
Stem Length 3 1/2" Including Thread

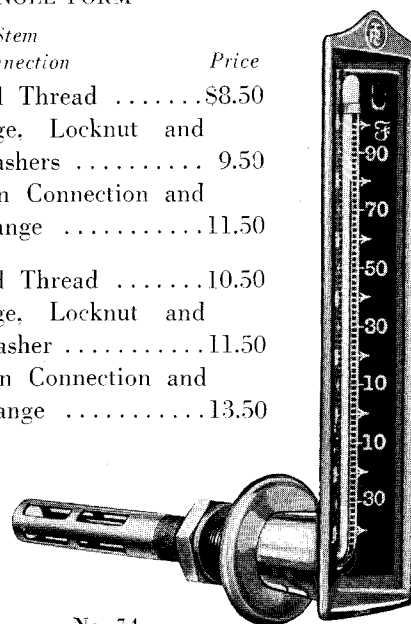
**WALL FITTING CONNECTIONS**

**Air Ducts, Driers, Ovens, Etc.**

STRAIGHT FORM				ANGLE FORM		
Scale Case	Cat. No.	Stem Connection	Price	Cat. No.	Stem Connection	Price
7"	63	Fixed Thread . . . . .	\$7.00	73	Fixed Thread . . . . .	\$8.50
	64	Flange, Locknut and Washers . . . . .	8.00	74	Flange, Locknut and Washers . . . . .	9.50
	65	Union Connection and Flange . . . . .	10.00	75	Union Connection and Flange . . . . .	11.50
9"	93	Fixed Thread . . . . .	9.00	103	Fixed Thread . . . . .	10.50
	94	Flange, Locknut and Washer . . . . .	10.00	104	Flange, Locknut and Washer . . . . .	11.50
	95	Union Connection and Flange . . . . .	12.00	105	Union Connection and Flange . . . . .	13.50

Longer Length Stem on Fixed Thread, Flange or Union Connection—  
For each additional 3" or fraction thereof add \$1.00 to list.  
Longer Length Stem on Separable Socket—For each additional 2"  
or fraction thereof add \$2.00 to list.  
2 1/2" Extension Neck on Union Hub—For each additional 3" or  
fraction thereof add \$2.00 to list.

Specify Temperature Range and Size of Pipe Thread

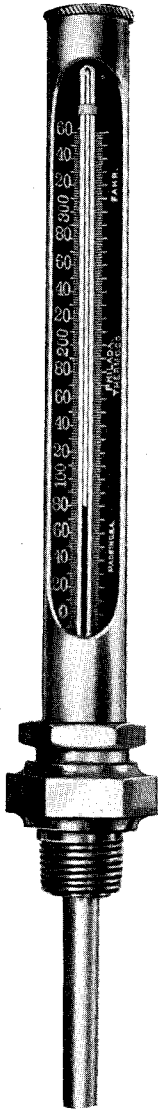


No. 74

**PHILADELPHIA ROUND BRASS CASE THERMOMETERS**

The Scale Case is made of heavy gauge seamless brass tubing, 1" diameter with 7" scale opening. Furnished with Fixed, Union, or Separable Socket Connections. Stem length 3 1/2" including thread.

3/4" S. P. T. supplied unless otherwise specified. Ranges up to 750° F.



No. 21

**STRAIGHT FORM**

Cat. No.	Scale Case	Type Connection	Price
20	8"	Fixed Thread	\$7.50
21	8"	Union Connection	10.50
22	8"	Separable Socket	13.50

**ANGLE FORM**

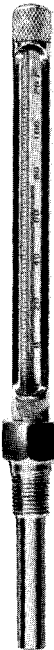
Cat. No.	Scale Case	Type Connection	Price
30	8"	Fixed Thread	\$9.00
31	8"	Union Connection	12.00
32	8"	Separable Socket	15.00

**WOOD CASK THERMOMETER**

Extra heavy chrome-plated Round Brass Case, 1/2" O. D. with 4 1/2" scale opening, 1 3/4" stem below thread. Graduations and lines etched on magnifying lens front glass tube.

Red Liquid or Mercury Filled

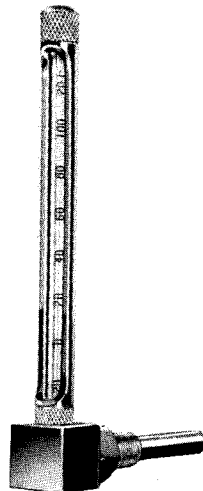
Cat. No.	Type	Price
12	Straight Form	\$3.50
17	Angle Form	4.50
Extra Tubes for Above (Straight)		1.50
(Angle)		2.00



No. 12

**STOCK RANGES**

-20°-120° F.  
30°-220° F.  
Other Ranges to Order



No. 17

**SMALL ROUND BRASS CASE THERMOMETER**

Nickel-plated case of seamless brass tubing 1" O. D. with 5" Scale opening, 3/8" or 1/2" S. P. T. with 1" bulb chamber. Principally used on Shower Baths, Sterilizers, Ice Cream Freezers, etc.

Cat. No.	Type	Price
10	Straight Form	\$5.00
15	Angle Form	6.00

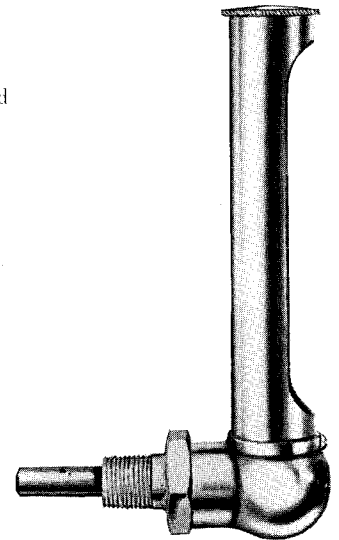
**STOCK RANGES**

-20°-120° F.  
40°-260° F.

Tubes Are Red Liquid or Mercury Filled



No. 10



No. 15

# COLD STORAGE ROOM

## PHILADELPHIA COLD STORAGE ROOM THERMOMETERS

Cast Bronze V-Shape Case, glass front with insulated brass stem and slotted bulb guard. Furnished complete with flange locknut and washer or union connection flange. Thermometers listed below have a stem length of approximately 13¾" and are suitable for walls 5" to 6" thick. Range—20°-120° F.

### 9" BRONZE CASE

	<i>Price</i>
No. 330—With Flange, Locknut and Washer .....	\$21.50
No. 331—With Union Connection Flange .....	23.50

### 12" BRONZE CASE

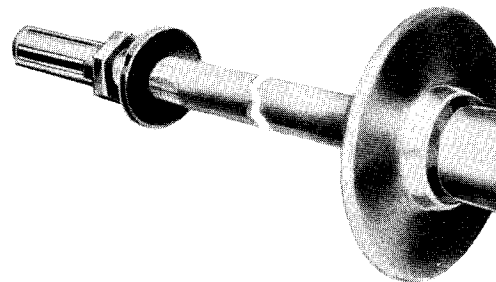
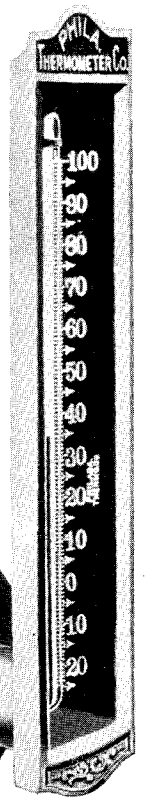
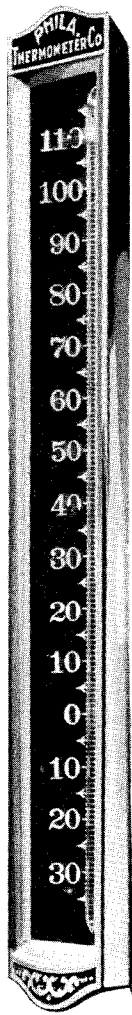
	<i>Price</i>
No. 335—With Flange, Locknut and Washer .....	\$25.50
No. 336—With Union Connection Flange .....	27.50

NOTE—In determining stem length measure thickness of wall and allow stem to project inside the room about 8 inches.

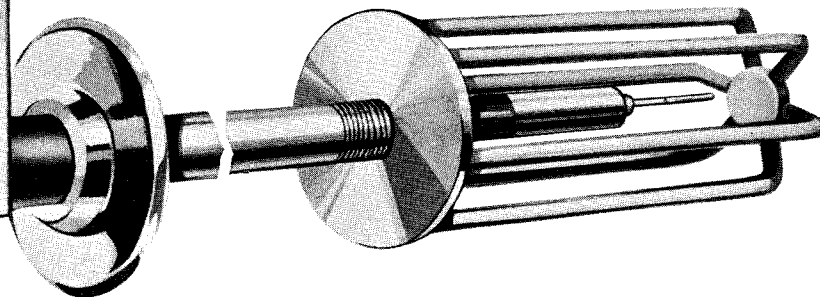
For greater stem lengths than listed above add \$2.00 for each 6 inches or fraction thereof.

EXTRA HEAVY BULB GUARD (galvanized) as shown, furnished with any of the above numbers; is made of ¾" O. D. steel rod, riveted through a 4" flange. Overall length 10".

Price .....



No. 330

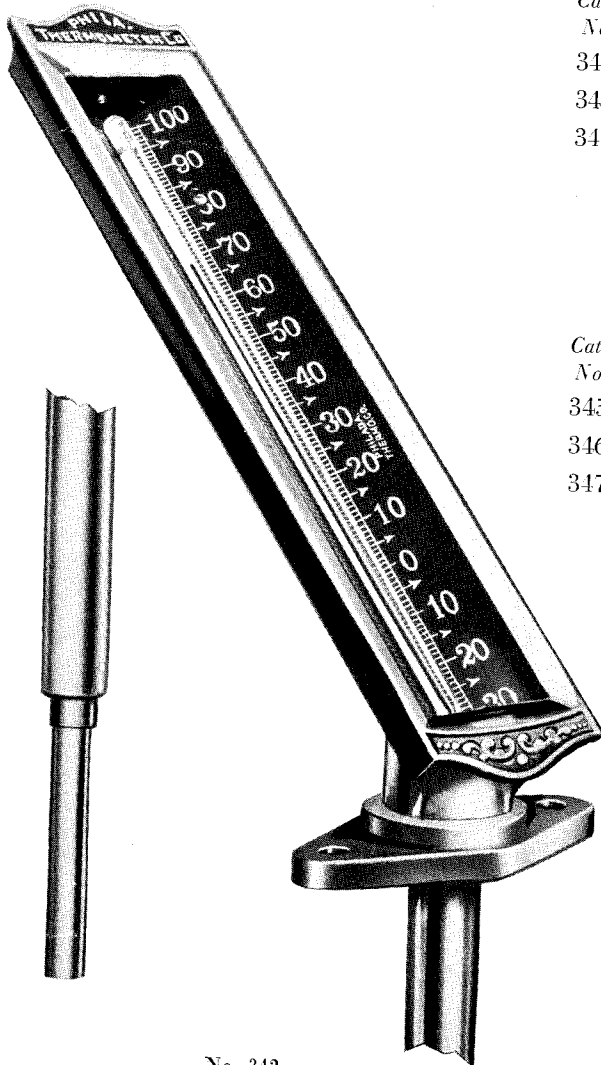


**PHILADELPHIA BRINE TANK THERMOMETERS**

(Long Stems)

Cast Bronze V-Shape Case and Frame with glass front. Reclined angle or straight form scale case with fixed or adjustable flange. These thermometers are inserted in top of brine tanks. If the insertion is through flooring the scale case of the reclined angle type is brought within direct vision of observer while standing.

SCALE RANGE  
-30°-110° F



No. 342

**9" BRONZE CASE**

45° ANGLE FORM

STRAIGHT FORM

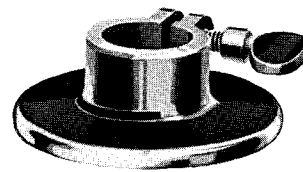
<i>Cat. No.</i>	<i>Stem Length</i>	<i>Price</i>	<i>Cat. No.</i>	<i>Stem Length</i>	<i>Price</i>
340	24"	\$25.00	340-S	24"	\$22.00
341	30"	27.00	341-S	30"	24.00
342	36"	29.00	342-S	36"	26.00

**12" BRONZE CASE**

45° ANGLE FORM

STRAIGHT FORM

<i>Cat. No.</i>	<i>Stem Length</i>	<i>Price</i>	<i>Cat. No.</i>	<i>Stem Length</i>	<i>Price</i>
345	24"	\$29.00	345-S	24"	\$26.00
346	30"	31.00	346-S	30"	28.00
347	36"	33.00	347-S	36"	30.00



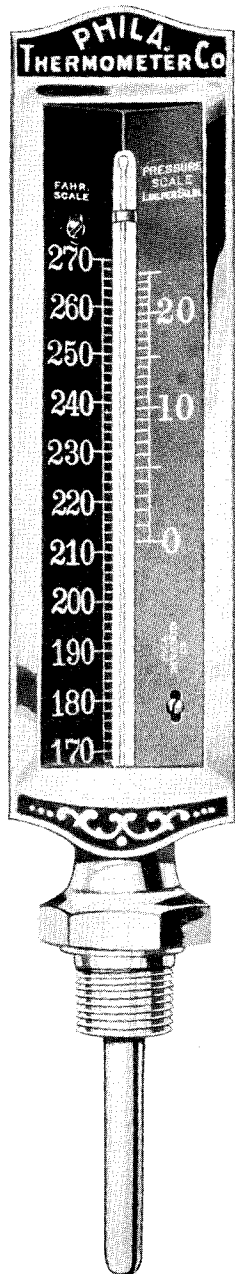
No. 755  
Adjustable Flange

**PHILADELPHIA INDUSTRIAL THERMOMETERS**

for use on

**RETORTS—CONDENSERS—STERILIZERS—VULCANIZERS, ETC.**

*Cast Bronze V-Shape Case With Glass Front*



No. 244

STRAIGHT FORM

Scale	Cat.	Stem	Price
Case	No.	Connection	
7"	244	Fixed Thread	\$12.50
	245	Union Connection	15.50
	246	No. 700 Separable Socket	18.50
9"	274	Fixed Thread	\$15.00
	275	Union Connection	18.00
	276	No. 700 Separable Socket	21.00

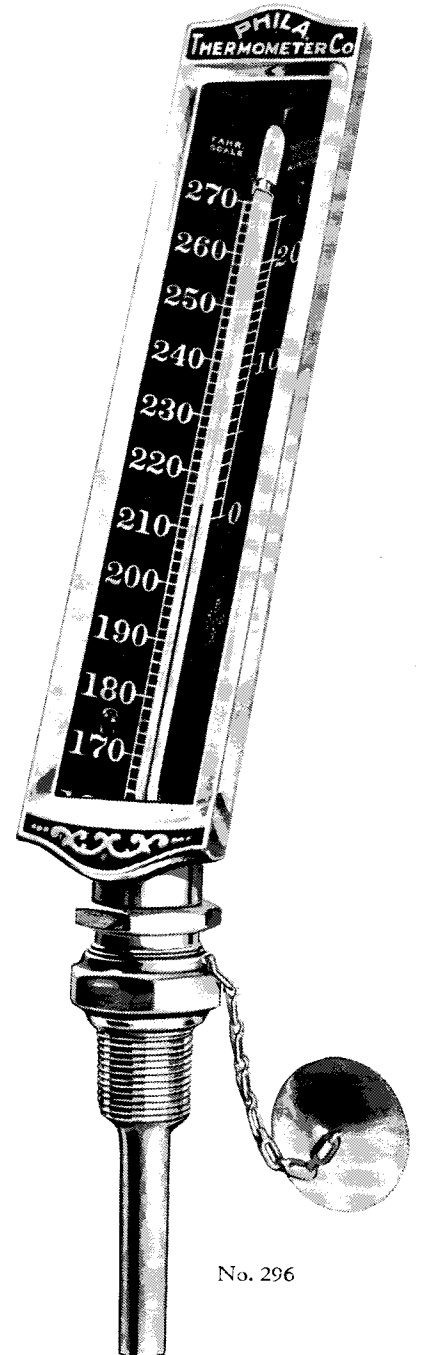
26° Reclined Angle

7"	261	Fixed Thread	\$14.50
	265	Union Connection	17.50
	266	No. 700 Separable Socket	20.50
9"	294	Fixed Thread	\$18.00
	295	Union Connection	21.00
	296	No. 700 Separable Socket	24.00

STOCK RANGES

- 170°-270° F With Pressure Scale
- 200°-350° F With Pressure Scale

NOTE: Also furnished in 90° Angle, left and right side angles at same prices listed under 26° reclined types.



No. 296

**PHILADELPHIA DAIRY THERMOMETERS**

**PLATFORM—PASTEURIZERS—VATS—COOLERS, ETC.**

The long stem thermometers listed here have Aluminum V-Shape Case with chrome-plated brass frame for glass front. Wood handle at top of case or adjustable combination handle and flange on stem. Stem and bulb chamber made of (18-8) Stainless Steel.



No. 375

	<i>Cat. No.</i>	<i>Scale Case</i>	<i>Stem Length</i>	<i>Price</i>
Specify	375	10"	14"	\$20.00
Temperature	376	10"	24"	26.00
Range	377	10"	30"	28.00
	380	7"	14"	18.00
	381	7"	24"	24.00

NOTE: Combination handle and flange measure approximately 4", therefore, the stem for immersion purposes will be 4" shorter than listings. In ordering specify type of handle desired.

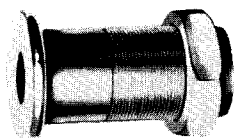
STOCK RANGES { 30°-90° F  
130°-220° F  
30°-220° F

**I. A. M. D. SANITARY FITTING**

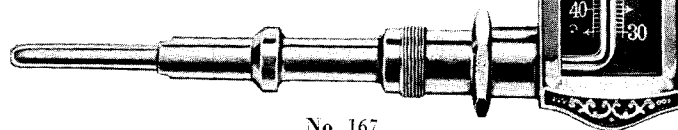
Bronze V-Shape 7" Scale Case, glass front stems of 18-8 Stainless Steel and made to fit sanitary wall fitting (I. A. M. D. Specifications) adaptable for walls 1 1/4" to 2 3/4".

	<i>Cat. No.</i>	<i>Scale Case</i>	<i>Angle</i>	<i>Price</i>
Specify	165	7"	Back—Angle	\$20.00
Temperature	166	7"	Right—Side Angle	20.00
Range and	167	7"	Left—Side Angle	20.00
Size of	770	Sanitary Wall Fitting for Above		3.50
Pipe Thread				

STOCK RANGES { 30°-220° F  
130°-220° F



No. 770

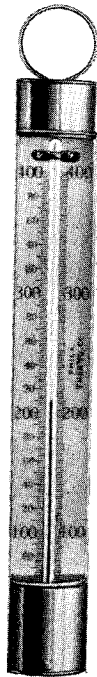


No. 167

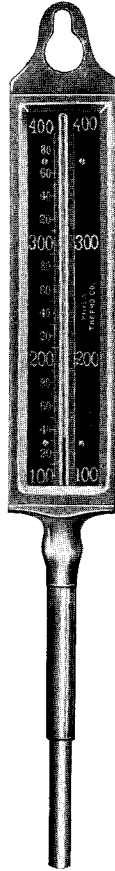
**PHILADELPHIA THERMOMETERS FOR CONFECTIONERS**



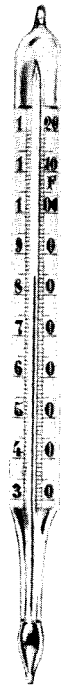
No. 382



No. 420



No. 385



No. 1503

**COPPER CASE CONFECTIONER THERMOMETERS**

Magnifying lens front tubes, mounted on silvered scales with black lines and numerals. Range 100°-400° F.

*Copper Case*

<i>Cat. No.</i>	<i>Size</i>	<i>Price Doz.</i>
420	12"	\$30.00
421	14"	36.00
423	18"	45.00

*Refills—Tubes and Scales*

<i>Cat. No.</i>	<i>Size</i>	<i>Price Each</i>
420-R	12"	\$2.00
421-R	14"	2.25
423-R	18"	3.00

Cat. No. 385—Consists of 7" aluminum V-shape case, glass front, with 5" stem. Range: 100°-400° F. and 200°-360° F. Price .....Each \$12.00

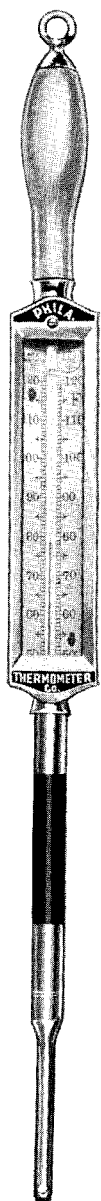
Cat. No. 382—Confectioners improved boiling thermometer, 10" aluminum V-shape case, glass front, with 14" nickel plated copper stem. Complete with pulley and cord for suspension. Range: 160°-260° F. and 200°-360° F. Price .....Each \$18.00

Cat. No. 1503—Enclosed paper scale type thermometer for chocolate dipping, 9" overall. Range: 40°-120° F. Price .....Per Doz. \$18.00

**PHILADELPHIA THERMOMETERS FOR BAKERS**

**ALUMINUM CASE DOUGH THERMOMETER**

No. 379—7" Aluminum V-Shape case, glass front with handle top and a 12" insulated (to minimize temperature lag) stainless steel stem and long sensitive bulb chamber.  
Price .....\$18.00



No. 379

**ARMORED DOUGH THERMOMETER**

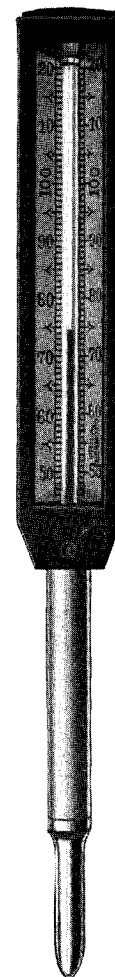
No. 530—Etched stem thermometer graduated 50°-120° F. Mercury or Red Liquid filled tube mounted in nickel-plated armored case. Length overall 11 inches. Price .....\$4.00



No. 530

**BAKELITE CASE THERMOMETER**

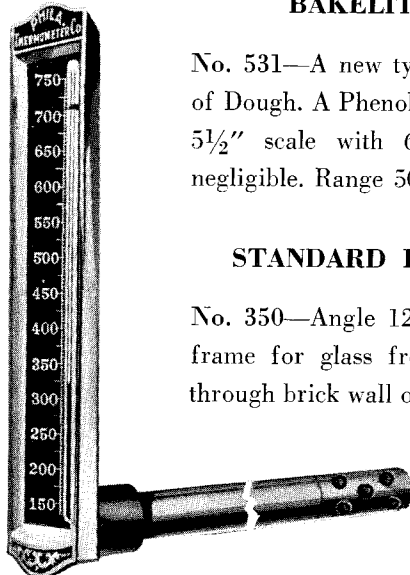
No. 531—A new type thermometer for testing temperature of Dough. A Phenol Condensate case (Bakelite), glass front 5 1/2" scale with 6" stem. Temperature lag practically negligible. Range 50°-110° F. Price .....\$7.50



No. 531

**STANDARD BAKE OVEN THERMOMETER**

No. 350—Angle 12" V-Shape iron case with nickel-plated frame for glass front. Steel stem 36" long for insertion through brick wall of oven. Range 200°-800° F. Price, \$20.00



No. 350

**FAT FRYING THERMOMETER**

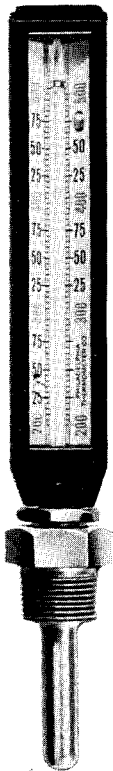
No. 424—Same as illustration No. 420 on opposite page (30). 12" Copper case. Range 50°-600° F. Price Per Dozen .....\$33.00



## PHILADELPHIA SUBMARINE THERMOMETERS

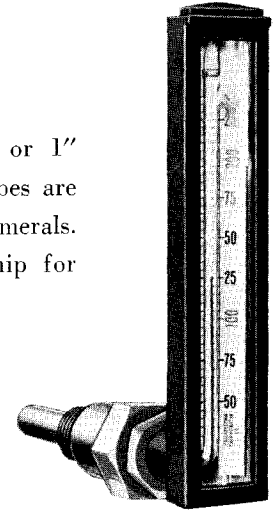
### Bakelite or Bronze Case

Phenol Condensate or Bronze V-Shape Case, Glass Front with 1/2", 3/4", or 1" S. P. T. Monel socket made according to U. S. Navy specifications. The tubes are Red Reading Mercury type with a 5 1/2" silver scale having black lines and numerals. 100° marks in red. These thermometers are extensively used on board ship for Diesel Engines, Turbine Engines, Compressors, Condensers, Oil Lines, etc.



No. 544

<i>Phenol Condensate Case</i>		<i>Bronze Case</i>	
<i>Cat. No.</i>	<i>Price</i>	<i>Cat. No.</i>	<i>Price</i>
544	Straight Form ...\$8.50	547	Straight Form ...\$8.50
545	Angle Form .....10.00	548	Angle Form .....10.00



No. 545

Also furnished in Right Side, Left Side or Oblique Angles. If brass sockets are desired instead of monel, deduct \$1.25 from list price. Prices for sockets with longer stem length quoted upon request.

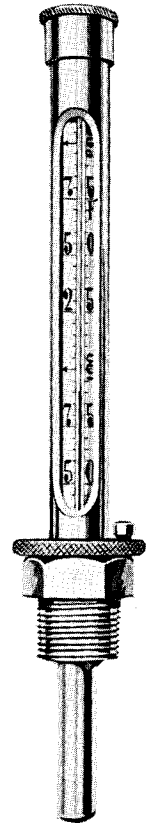
STANDARD RANGES {  
 -10°-110° F.  
 30°-250° F.  
 200°-500° F.

IN ORDERING } Temperature Range  
 SPECIFY } Size of S. P. T.

### ROUND BRASS CASE SUBMARINE THERMOMETER

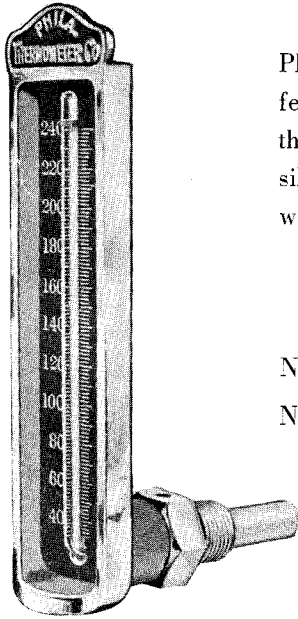
No. 541—A heavy gauge brass tubular case 3/4" O. D. with 5" scale opening. Monel socket securely fastened to case by means of lock washer and set screw. The thermometer is a glass enclosed bristol-board scale type. 1/2", 3/4" or 1" S. P. T. Price .....\$8.50

RANGES {  
 -10°-110° F.  
 30°-250° F.  
 200°-500° F.



No. 541

**PHILADELPHIA FEED WATER THERMOMETERS**



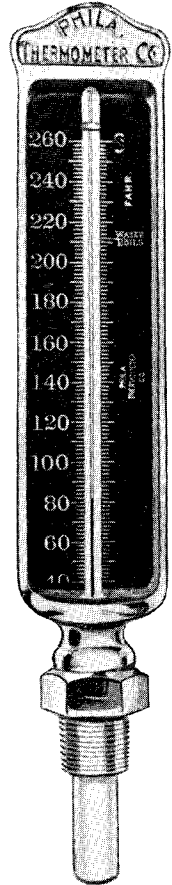
No. 5

Philadelphia feed water thermometers, for brine pipe, hot water, and feed water systems. A high grade nickel-plated flat back iron case thermometer, with individually calibrated scale, oxidized black with silver lines and numbers, and heavy magnifying lens tubes. Fitted with 1/2" or 3/4" S. P. T. mercury wells. Red Liquid or Mercury.

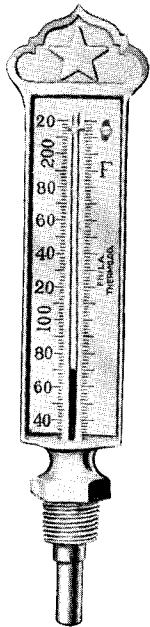
Stock Ranges —20°-120° F. and 40°-260° F.

No. 1—Straight Form .....\$2.50

No. 5—Angle Form ..... 3.00



No. 1



No. 7

**MIDGET THERMOMETER**

A flat back nickel-plated bronze case, 3/8" S. P. T., 1" bulb chamber with silvered or black oxidized scale and magnifying lens front tube. Red Liquid or Mercury. Stock Ranges —20°-120° F. and 40°-220° F.

Cat. No.	Type	Price
No. 7	Straight Form	\$.40
No. 8	Angle Form	.. 5.00

**MIDGET THERMOMETER with V-Shape Case**

A midget type, open face V-Shape case thermometer with a 4" scale. Fixed 3/8" or 1/2" S. P. T. with 1 1/2" bulb chamber.

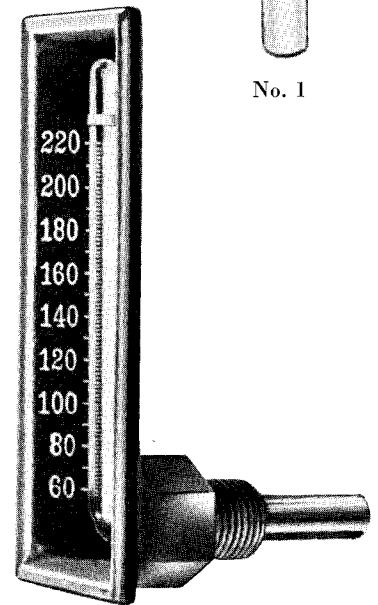
SCALE RANGES  
To order

**Bronze Case**

Cat. No.	Type	Price
142	Straight Form	..\$6.00
143	Angle Form	.... 7.50

**N. P. Iron Case**

144	Straight Form	..\$5.00
145	Angle Form	.... 6.50

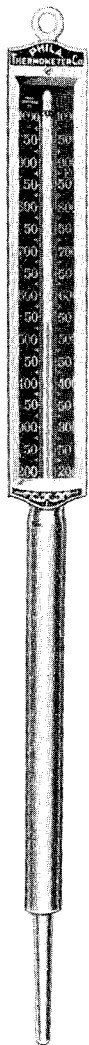


No. 145

**PHILADELPHIA INDUSTRIAL THERMOMETERS**

**For Molten Metals**

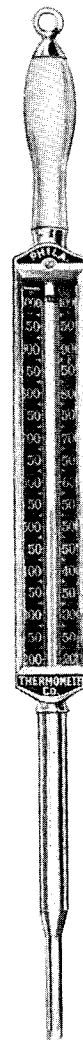
**STEREOTYPING—LEAD—SOLDER—GALVANIZING, ETC.**



No. 351



No. 533



No. 374

*Cat. No.*

351	12" Cast Bronze V-Shape Case, Ring Top and Glass Front. 18" Cast Iron Pipe Stem.	
	Ranges: 200°-750° F. Price .....	\$30.00
	200°-950° F. Price .....	35.00
373	7" Cast Aluminum V-Shape Case, Nickel-plated Bronze Frame for Glass Front. 9" Steel Stem.	
	Range: 450°-950° F. Price .....	18.00
374	10" Cast Aluminum V-Shape Case, Nickel-plated Bronze Frame for Glass Front. 12" Steel Stem.	
	Ranges: 200°-750° F. Price .....	18.00
	200°-950° F. Price .....	22.00
533	Etched Glass Stem Thermometer Mounted in 18" Steel Armored Case With Wood Handle.	
	Range: 400°-1000° F. Price .....	9.00
349	12" Iron V-Shape Open Face Case, Ring Top. 24" Steel Stem.	
	Ranges: 200°-750° F. Price .....	18.00
	200°-950° F. Price .....	23.00

**PHILADELPHIA INDUSTRIAL THERMOMETERS**

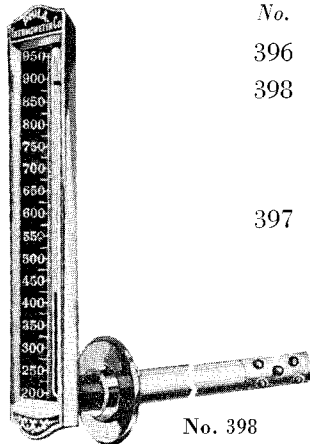
*Cast Bronze V-Shape Case With Glass Front*

**FLUE GAS**

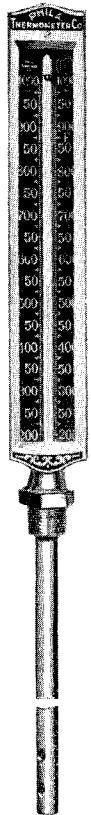
Fixed Thread or Adjustable Flange

Range 200-950° F.

<i>Cat. No.</i>		<i>Price</i>
396	12" Scale Case, Straight Form, 30" Stem .....	\$29.00
398	12" Scale Case, Angle Form, 30" Stem .....	32.00



No. 398



No. 396

**OIL TEMPERING**

397	12" Scale case with Ring Top, 30" Stem and Adjustable Hook .....	\$29.00
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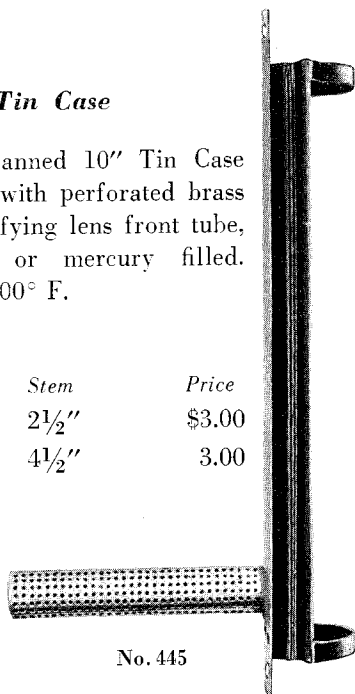
**THERMOMETERS FOR DRYING OVENS**

**Textile—Tobacco, Etc.**

*Tin Case*

Blackened Japanned 10" Tin Case angle form with perforated brass stem. Magnifying lens front tube, red liquid or mercury filled. Range 40°-300° F.

<i>Cat. No.</i>	<i>Stem</i>	<i>Price</i>
444	2½"	\$3.00
445	4½"	3.00



No. 445



Front View  
No. 446

*Iron Case*

Nickel-plated Iron Case, flat scale angle form with 4½" slotted stem, with holes at top and bottom for mounting 10" scale case.

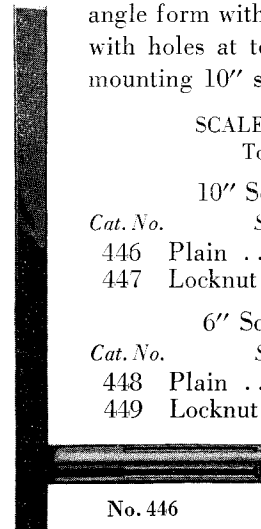
SCALE RANGES  
To order

10" Scale Case

<i>Cat. No.</i>	<i>Stem</i>	<i>Price</i>
446	Plain .....	\$5.00
447	Locknut and Washer.	6.00

6" Scale Case

<i>Cat. No.</i>	<i>Stem</i>	<i>Price</i>
448	Plain .....	\$4.00
449	Locknut and Washer.	5.00



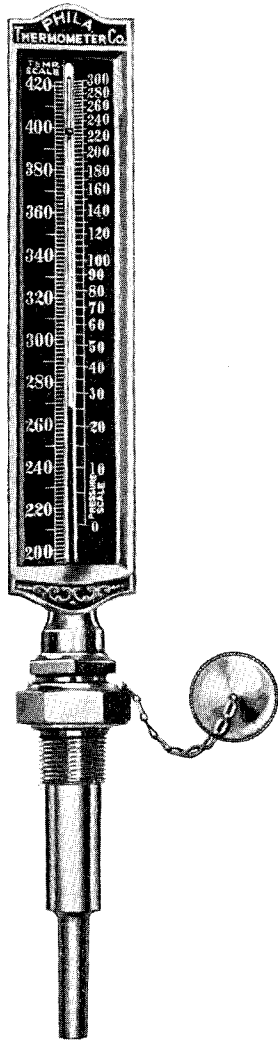
No. 446

# SUPER-HEATED STEAM

## PHILADELPHIA THERMO-STEAM and THERMO-VACUUM GAUGE THERMOMETERS

### SUPER-HEATED STEAM THERMOMETERS

Cast Bronze V-Shape Case With Glass Front



No. 401-B

#### HIGH PRESSURE THERMO-STEAM GAUGE

Range 200-420° F. with Pressure Scale 0-300 lbs.

STRAIGHT FORM

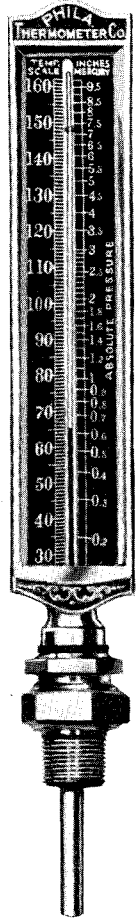
ANGLE FORM

Scale Case	Cat. No.	Socket No.	Price	Cat. No.	Socket No.	Price
12"	401-A (Std.)	700	\$25.00	403-A (Std.)	700	\$28.00
	401-B	701	27.00	403-B	701	30.00
	401-C	702	27.00	403-C	702	30.00

#### LOW PRESSURE

Range 200-340° F. with Pressure Scale 0-100 lbs.

Scale Case	Cat. No.	Socket No.	Price	Cat. No.	Socket No.	Price
9"	405	700	\$21.00	407	700	\$24.00
12"	406	700	25.00	408	700	28.00



No. 410

#### THERMO-VACUUM GAUGE (Absolute Pressure)

Range 0-160° F. with Pressure Scale (Inches of Mercury)

Union Connection 1" S. P. T.

STRAIGHT FORM

ANGLE FORM

Scale Case	Cat. No.	Price	Cat. No.	Price
12"	410	\$25.00	411	\$28.00

### SUPER-HEATED STEAM THERMOMETERS

for High Velocity Steam

300-950° F.

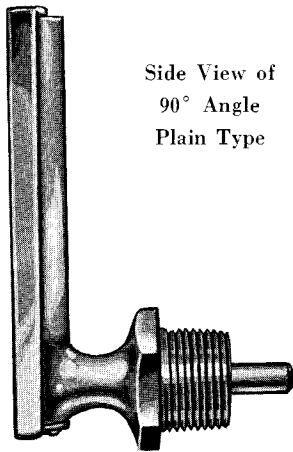
STRAIGHT FORM

ANGLE FORM

Scale Case	Cat. No.	Socket No.	Price	Cat. No.	Socket No.	Price
9"	415-C	702	\$28.00	417	702	\$31.00
12"	416-C	702	32.00	418	702	35.00

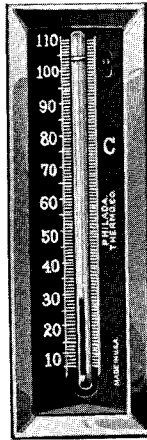
## PHILADELPHIA THERMOMETERS FOR TRANSFORMERS

5" Bronze V-Shape Case, glass front with 3/4", 1" or 1 1/4" Standard Pipe Thread Connection. Bulb chamber 1 1/2" Plain Type or Electric Alarm feature, 10°-110° C.



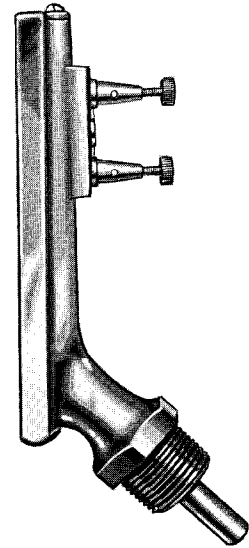
Side View of  
90° Angle  
Plain Type

No. 120-A



Front View  
Scale Face  
With Glass Front

Side View of  
45° Angle  
With Lugs  
for Contacts



No. 125-O

### PLAIN TYPE Mercury or Red Liquid

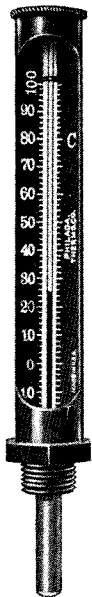
Cat. No.		Price
120	Straight Form .....	\$7.50
120-A	Angle Form .....	9.00
120-O	45° Angle .....	9.00

### ELECTRIC CONTACTS Mercury Only

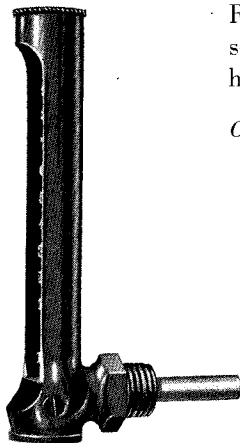
Cat. No.		Price
125	Straight Form .....	\$10.50
125-A	Angle Form .....	12.00
125-O	45° Angle .....	12.00

3/4" S. P. T. Furnished Unless Otherwise Specified

## ROUND BRASS CASE TRANSFORMER THERMOMETERS



No. 130



No. 131

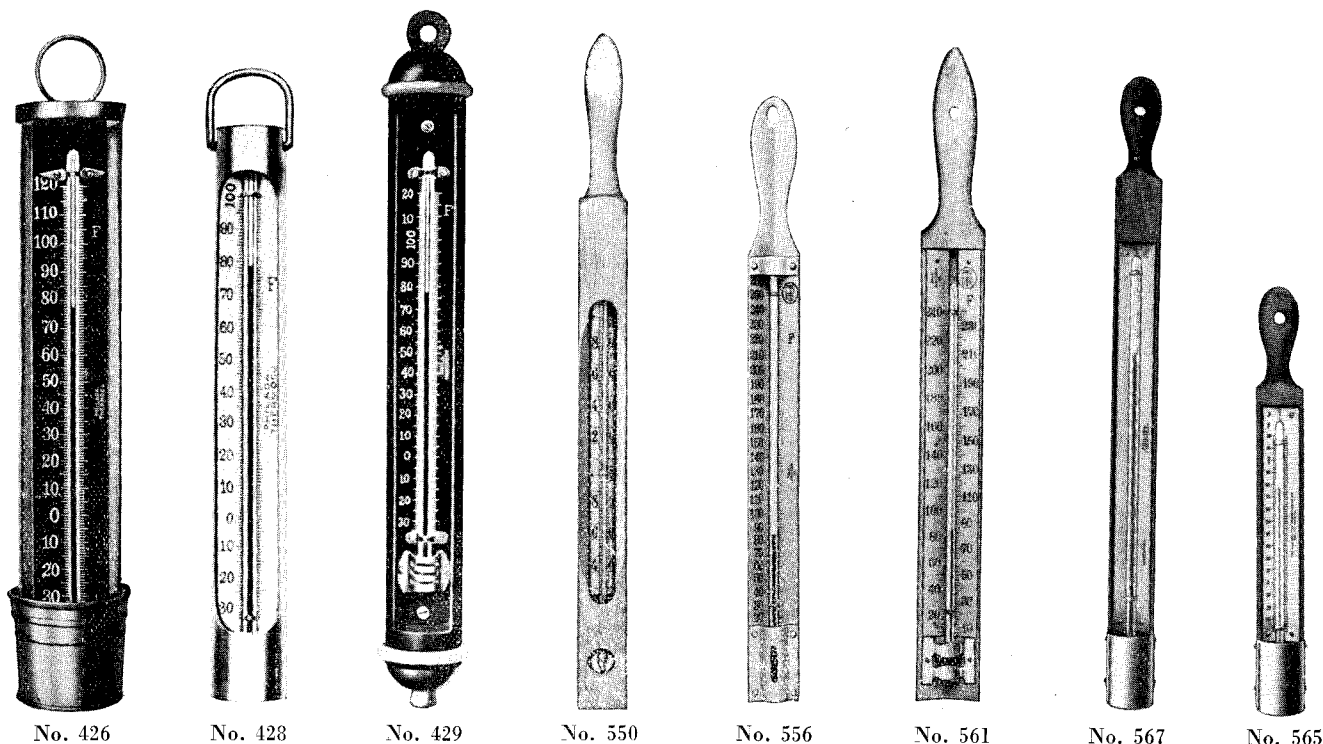
Round brass case type, oxidized black constructed of heavy gauge seamless brass with 3/8" or 1/2" S. P. T. and 1 1/2" bulb chamber. Case has 5" scale opening. Range: 10°-110° C.

Cat. No.		Price
130	Straight Form .....	\$7.00
131	Angle Form .....	8.50

# GENERAL UTILITY

## PHILADELPHIA THERMOMETERS

(For General Use)



No. 426

No. 428

No. 429

No. 550

No. 556

No. 561

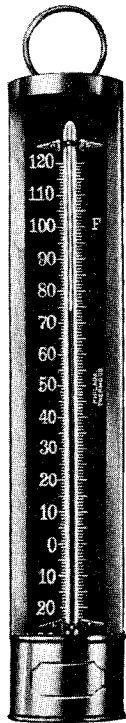
No. 567

No. 565

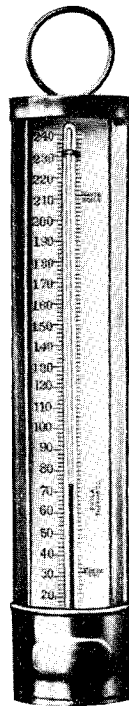
*Cat. No.*

- 426 12" Copper Cup Case Thermometer. A cup is provided at bottom of case to retain a sufficient amount of liquid around bulb until temperature is observed. Range:  $-20^{\circ}$ - $120^{\circ}$  F. and  $30^{\circ}$ - $260^{\circ}$  F. Red Liquid or Mercury filled tubes.  
Price Per Dozen ..... \$30.00
- 426-S Ditto, except 10" Case.  
Price Per Dozen ..... \$27.00
- 428 10" Round Brass Case Thermometer, Seamless Brass Tube 1" O. D. Slotted for scale opening with closed bottom for retaining liquid. Ranges:  $-20^{\circ}$ - $120^{\circ}$  F. and  $30^{\circ}$ - $260^{\circ}$  F. Red Liquid or Mercury filled tube.  
Price Per Dozen ..... \$42.00
- 428-L Ditto, except 12" case and  $1\frac{3}{4}$ " O. D.  
Price Per Dozen ..... \$54.00
- 429 Shiphold Thermometer. Galvanized Iron Case with rubber buffers on sides and bottoms, ring top case for cord attachment so that it may be lowered into inaccessible places. Red Liquid Tubes. Range:  $-30^{\circ}$ - $120^{\circ}$  F.  
Price Per Dozen ..... \$42.00
- 550 Glass enclosed Paper Scale Thermometer, inserted into wood frame housing with screw handle top. Mercury or Red Liquid filled tubes. Range:  $30^{\circ}$ - $240^{\circ}$  F.  
Price Per Dozen ..... \$30.00
- 551 Thermometer Refills for above wood frames.  
Price Per Dozen ..... \$21.00
- 556 Aluminum V-Shape Strop Thermometers, handle top, 16" overall for Poultry Scalding, Ham Boiling, etc. Range:  $20^{\circ}$ - $260^{\circ}$  F.  
Price Per Dozen ..... \$30.00
- 561 Oak Wood V-Shape thermometers, handle top,  $17\frac{1}{2}$ " overall. Red Liquid or Mercury tubes. Range:  $20^{\circ}$ - $260^{\circ}$  F.  
Price Per Dozen ..... \$30.00
- 565 Hardwood Back with 6" V-Shape Aluminum Scale graduated  $-30^{\circ}$ - $120^{\circ}$  F. Deep drawn brass cup at bottom. Overall length 10".  
Price Per Dozen ..... \$18.00
- 566 Ditto, except Range  $0^{\circ}$ - $260^{\circ}$  F.  
Price Per Dozen ..... \$18.00
- 567 Same as No. 565, except overall length is 15" with scale etched on  $10\frac{1}{2}$ " tube. Range  $-50^{\circ}$ - $120^{\circ}$  F. and  $0^{\circ}$ - $220^{\circ}$  F.  
Price Per Dozen ..... \$27.00

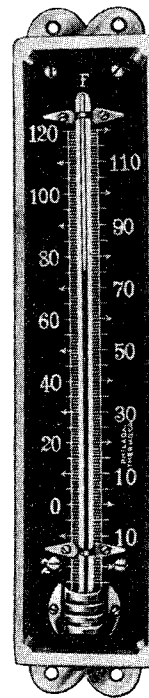
**PHILADELPHIA WALL THERMOMETERS**



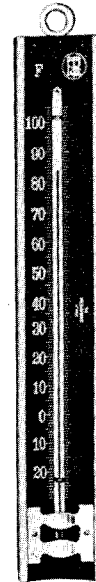
No. 432



No. 442



No. 451



No. 460

**COPPER CASE AND BLACK JAPANED TIN CASE**

These thermometers are furnished with a copper or black Japanned tin case of heavy material and are durably constructed. The scales are individually calibrated for each tube and are finished black with silver lines and numbers or silver with black lines and numbers. Heavy magnifying lens front tubes, mercury or red liquid filled.

Stock Ranges:  $-20^{\circ}$ - $120^{\circ}$  F     $0^{\circ}$ - $220^{\circ}$  F     $30^{\circ}$ - $260^{\circ}$  F

COPPER CASE		TIN CASE	
	Price Per Doz.		Price Per Doz.
No. 430—8" Size .....	\$21.00	No. 440—8" Size .....	\$15.00
No. 431—10" Size .....	24.00	No. 441—10" Size .....	18.00
No. 432—12" Size .....	27.00	No. 442—12" Size .....	21.00

**CAST METAL CASE WALL THERMOMETERS**

Heavy nickel-plated iron case or polished brass case with lugs for fastening to wall. Oxidized black scale with silver lines and numbers. Magnifying lens front tubes, mercury or red liquid filled. Ranges:  $-20^{\circ}$ - $120^{\circ}$  F.

NICKEL-PLATED IRON CASE		POLISHED BRASS CASE	
	Price Per Doz.		Price Per Doz.
No. 450—8" Size .....	\$24.00	No. 453—8" Size .....	\$36.00
No. 451—10" Size .....	30.00	No. 454—10" Size .....	42.00
No. 452—12" Size .....	36.00	No. 455—12" Size .....	48.00

**WOOD BACK WALL THERMOMETERS**

No. 460—Twelve-inch V-Shape hardwood back with oxidized black scale, silvered lines and numbers. Range:  $-20^{\circ}$ - $100^{\circ}$  F. Red liquid or mercury and  $-10^{\circ}$ - $70^{\circ}$  F mercury only.

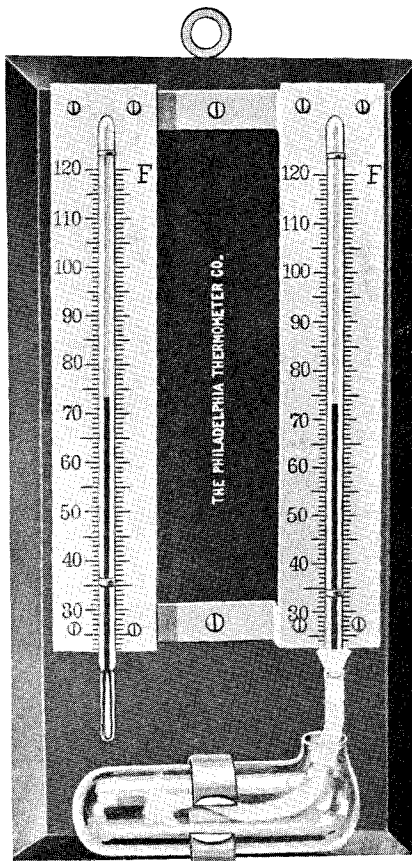
Price .....Per Doz. \$21.00

On all Thermometers above with Combination or Double Scale F. and R. or F. and C. add \$3.00 per dozen to list price.



# HYGROMETER

## PHILADELPHIA WET AND DRY BULB THERMOMETERS



No. 490

### MASON'S FORM HYGROMETER

(Best Grade)

Cat. No. 490 (Illustrated)—Shows the Wet and Dry Bulb Thermometers assembled on Brass Brackets which are mounted on a 9" x 4<sup>3</sup>/<sub>4</sub>" Mahogany or Cherry Finished Hardwood Back with removable Water Jar at bottom. Tubes are magnifying lens front and mercury filled.

Stock Ranges: 20°-120° F  
20°-220° F

Price .....\$5.00

Cat. No. 491—Similar to No. 490, except that the Cherry Finished Wood Back measures 8" x 3<sup>3</sup>/<sub>4</sub>", with wood strips for scale mounting.

Tubes are filled with Red Liquid. Price .....\$3.50

A Relative Humidity Chart Furnished With Above Instruments

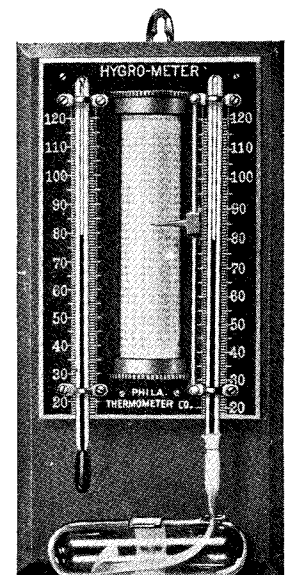
### HYGRO METER

#### with Revolving Chart

(Patented)

No. 493—THE HYGRO METER consists of a red liquid thermometer (Dry Bulb) and a blue liquid thermometer (Wet Bulb) mounted on a heavy brass plate rich gold finish with black lines and figures, combined with humidity chart in revolving cylinder and sliding pointer which is placed conveniently between the two thermometers. These in conjunction with the water well are assembled neatly and compactly on a handsome Mahogany Finished Wood Back, complete with hanger for fastening to wall. The red liquid tube (Dry Bulb) indicates the room temperature, while the blue liquid tube (Wet Bulb) has a wick covering the bulb which draws up water from the water jar and as evaporation takes place the bulb is cooled off accordingly. The difference in degrees between the red liquid tube and the blue tube when compared on the revolving chart, gives you the percentage of moisture, commonly known as Relative Humidity. After reading has been observed, the chart and sliding pointer should be left "Set" until next reading to indicate the change of conditions.

Price .....\$7.50



No. 493

# PSYCHROMETERS

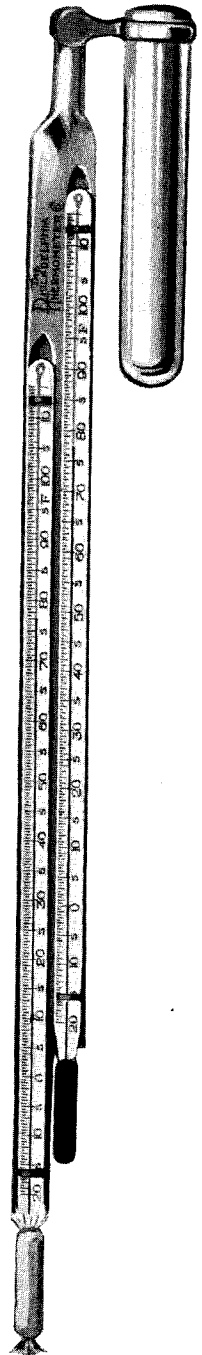
## PHILADELPHIA WET AND DRY BULB THERMOMETERS

### SLING PSYCHROMETER

The Sling Psychrometer (or whirling Hygrometer) is used for quick and accurate measurement of the moisture content in the surrounding atmosphere.

Cat. No. 495 illustrates two extra quality etched stem thermometers (Wet and Dry Bulb) mounted on a cast aluminum back. Nickel-plated brass hinge on top of aluminum back revolves on brass bushing inserted in aluminum handle.

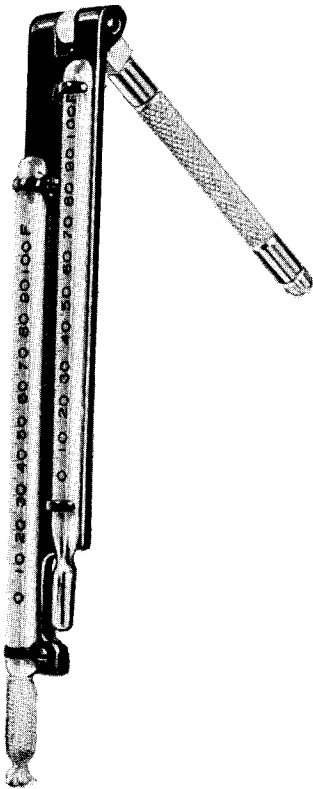
Copper protecting case and Humidity Chart furnished with instrument. Price .....\$11.00



No. 495

### POCKET TYPE SLING PSYCHROMETER

No. 496—A small Sling Psychrometer conveniently carried in pocket. The Wet Bulb and Dry Bulb tubes are made of Yellow Back tubing mounted on black enameled aluminum back, with brass swivel handle that “folds up” in back of mounting. Complete with leather covered carrying case and humidity chart. Price .....\$7.00



No. 496

# ETCHED STEM

## ETCHED STEM THERMOMETERS

for

### GENERAL TESTING

in

### FACTORY AND LABORATORY

The etched stem thermometers listed here, are made with extreme care, properly annealed to insure constancy, and carefully calibrated for accuracy.



#### STANDARD GRADE

Nitrogen Filled

#### Fahrenheit Scale

Cat. No.	Length	Range	Division	Price	Mounted in
					Armored Case
					Price
4000	12"	-20°-120°	1°	\$1.50	\$3.50
4001	12"	20°-220°	1°	1.50	3.50
4002	12"	30°-300°	2°	1.75	3.75
4003	14"	30°-400°	2°	2.25	4.50
4004	14"	30°-500°	2°	2.50	4.75
4005	16"	30°-600°	2°	3.00	5.50
4006	16"	30°-750°	2°	4.00	6.50
4007	16"	30°-950°	5°	5.00	7.50

#### Centigrade Scale

Cat. No.	Length	Range	Division	Price	Mounted in
					Armored Case
					Price
4050	12"	-10°- 50°	1°	\$1.50	\$3.50
4051	12"	-10°-110°	1°	1.50	3.50
4052	12"	0°-150°	1°	1.75	3.75
4053	14"	0°-200°	1°	2.25	4.50
4054	14"	0°-300°	1°	2.50	4.75
4055	16"	0°-400°	2°	4.00	6.50
4056	16"	0°-525°	2°	5.00	7.50

#### STEEL TEST WELLS

1/2" or 3/4" S. P. T.

These test wells are machined from a solid piece of cold rolled steel. They have a 3/8" bore and are furnished with a sealing cap and gasket.

Closed Bottom Type

Perforated Bulb Type

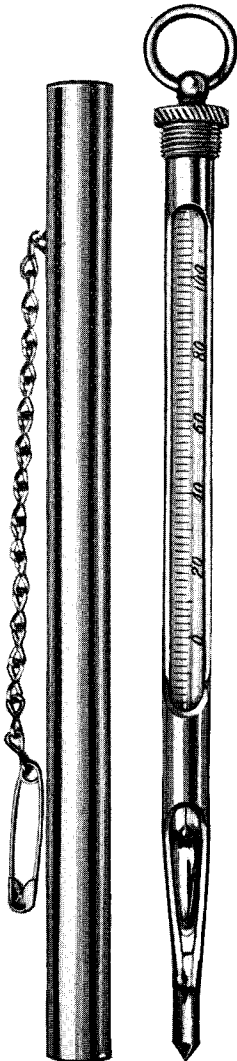
Cat. No.	Stem Length Inc. Thread	Price
725	2"	\$2.25
727	4"	3.25
729	6"	4.50

**POCKET CASE AND ARMORED THERMOMETERS**

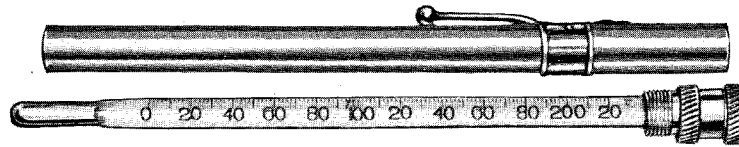
for

**GENERAL TESTING—MEAT—FRUIT—ASPHALT, ETC.**

*General Testing Thermometers*



No. 510  
Armored Fruit  
Testing

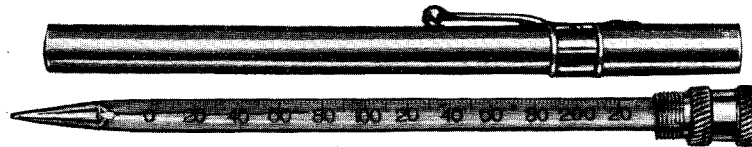


Cat. No.		Price Each
500	Pocket Case made of hard Aluminum, 6" overall with easy refill top and pocket clip—20-120° F.	\$2.50
501	Same except range—0-220° F. ....	2.50
504	Same except range—30-400° F. ....	3.00

**COLD STORAGE FRUIT TESTING, ETC.**

502	Same as No. 500 except tube has a pointed bulb.—20-120° F. ....	2.50
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**MEAT TESTING**



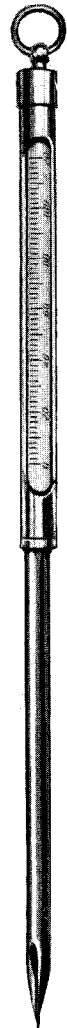
Cat. No.		Price Each
503	This Pocket Case Thermometer was designed by us for and adopted by The Bureau of Animal Industry, Department of Agriculture. Same type case as No. 500 with range 0-220°, pointed bulb and special markings at trichinosis and sterilization points .....	\$2.50
513	Armored meat testing, long stem, chrome plated, brass case with sharp pointed stainless steel stem, overall length 11½" .....	5.00

**ASPHALT TESTING**

515	Similar to No. 513 except case is made of steel with bullet shaped bulb end.	
	Range: 200-450° F. ....	6.00
	200-600° F. ....	6.00

**FRUIT TESTING**

510	Armored Fruit-testing Thermometer with pointed bulb guard. Complete with chrome plated case, overall length 6½" .....	5.00
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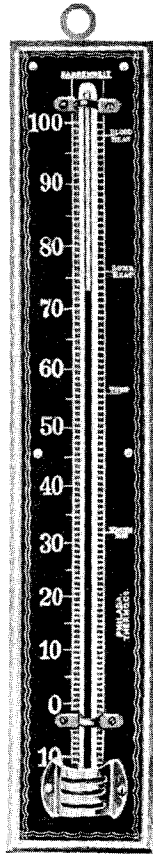


No. 513  
Meat  
Testing  
Long  
Stem

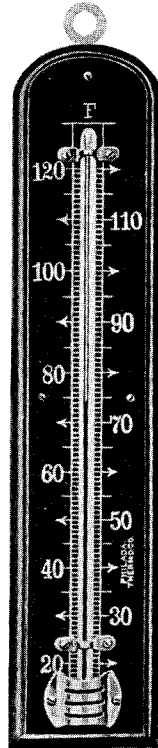
# CABINET TYPE for HOME and OFFICE

## PHILADELPHIA CABINET THERMOMETERS

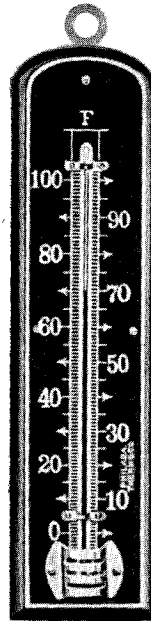
(Extra Quality)



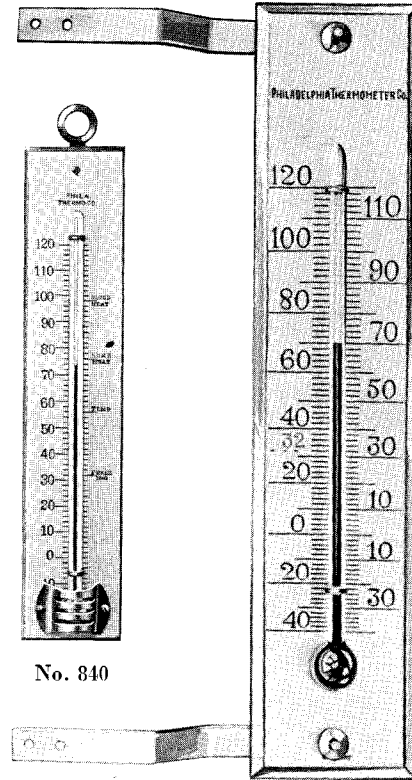
No. 827



No. 829



No. 831



No. 850

No. 840

Cat. No. 827—Illustrates a 10" Oak Wood Back Cabinet Thermometer with magnifying lens front tube, red liquid filled with black oxidized scales and silvered lines and numbers. Range: 20°-120° F.

Cat. No.	Size	Price Per Doz.
825	6"	\$21.00
826	8"	24.00
827	10"	27.00

Cat. No. 829—Mahogany Wood Back 8' long, otherwise same as above.

Cat. No.	Size	Price Per Doz.
828	6"	\$21.00
829	8"	24.00
830	10"	27.00

Cat. No. 831—Shows a 6" Mahogany Wood Back Cabinet Thermometer with a black oxidized, bevel edge, scale.

Cat. No.	Size	Price Per Doz.
831	6"	\$24.00
832	8"	27.00
833	10"	30.00

Cat. No. 840—Plain 8" Hard Wood Back Wall Thermometer for general use. Red liquid tube with silvered scales and black lines and numbers.

Price .....Per Doz. \$18.00

Cat. No. 850—A 10" plate glass bevel edge window thermometer with blue liquid tube. A high grade thermometer made to our specifications. (Imported.)

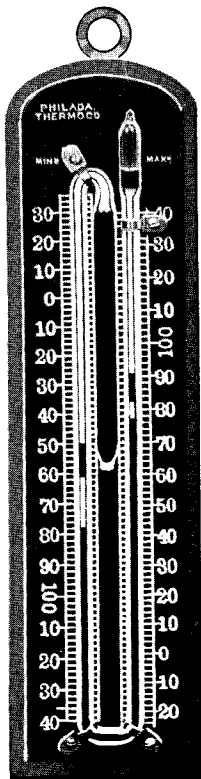
Price .....Per Doz. \$30.00

**PHILADELPHIA MAXIMUM AND MINIMUM THERMOMETERS**

*Self Registering (Sixes Type)*

This instrument is used for indicating the prevailing temperature and registering the highest and lowest temperature to which it is subjected. The registering feature consists of two steel indexes in the spirit-filled bores and are moved by the mercury column which fluctuates by the expansion and contraction of the spirit-filled bulb.

Before using this instrument the indexes should be drawn down the bore with a magnet until they touch the mercury column. A magnet is furnished with each instrument.



No. 480

**MOUNTED ON MAHOGANY BACK**

Cat. No.	Size	Price Each
480	8"	\$5.00
481	10"	5.50

**PROTECTING COPPER CASE**

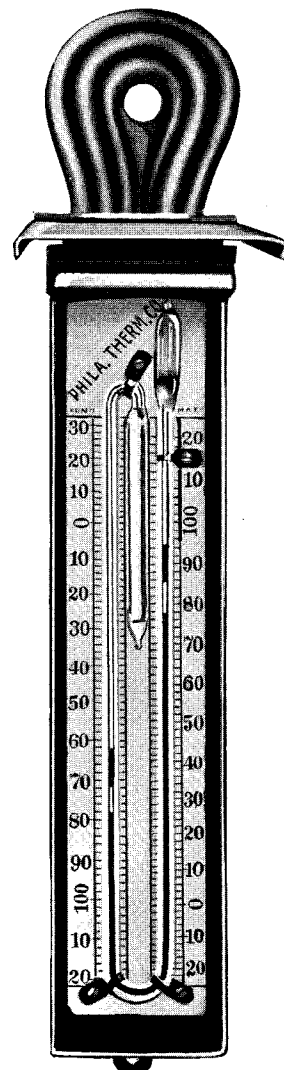
Cat. No.	Size	Price Each
486	8"	\$5.50
487	10"	6.00

**NICKEL-PLATED IRON CASE**

Cat. No.	Size	Price Each
851	8"	\$5.50
852	10"	6.00

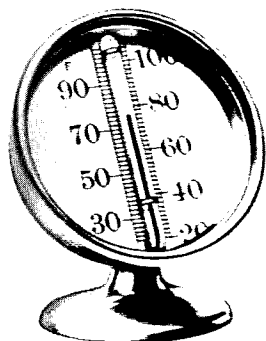
**BLACK JAPANNED TIN CASE**

Cat. No.	Size	Price Each
483	8"	\$5.00
484	10"	5.50



No. 486

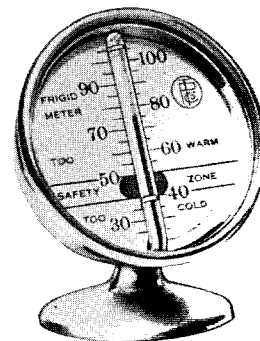
**DESK THERMOMETER**



No. 572

Cat. No. 572—Magnifying lens, front tube mounted on gold finish scale encased in a highly polished and lacquered brass case. Price . . . \$2.50

**REFRIGERATOR THERMOMETER**



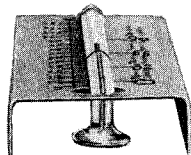
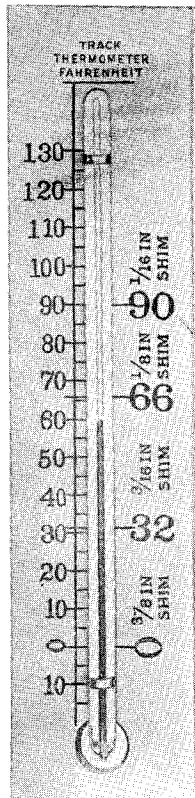
No. 571

Cat. No. 571—Same as No. 572, except case is nickel-plated and scale is white with black lines and numbers. Safety zone colored in Green with Too Cold and Too Warm in Red Letters.

Price . . . . . \$2.50

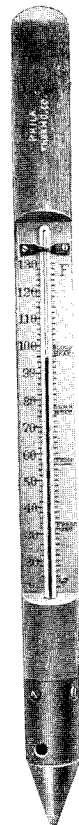
# TRACK-SOIL WAX-SURFACE

TRACK



No. 537

SOIL



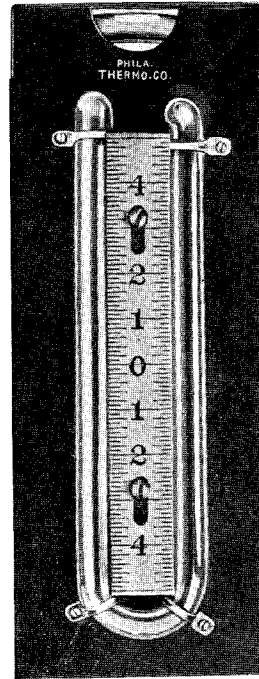
No. 539

WAX



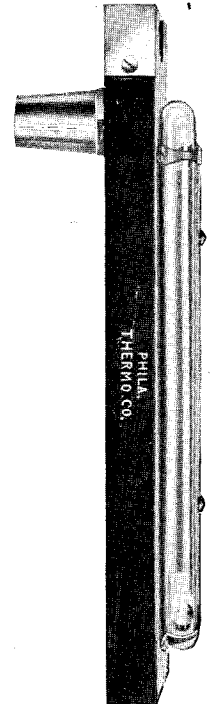
No. 535

U-GAUGE



Front View

No. 498



Side View

No. 537—Track Thermometer, angle tube with flat bulb mounted on flange scale with "Shim Scale" to specifications.  
Price ..... \$5.00

No. 538—Surface or Hot Plate Thermometer, same as Rail Thermometer without "Shim Scale" with ranges up to 500° F. Price ..... \$5.00

Over 500° F. to 800° F. Price ..... \$6.50

No. 539—Soil or Hot Bed Thermometers for Nurseries.  
Price ..... \$3.00

No. 535—Wax Pot Thermometer—Nickel-plated Brass Case with side hook and wood handle. Heavy brass scale with lens tube, mercury filled—Range 325°-450° F. Complete with Vulcot Fibre carrying case.  
Price ..... \$10.00

No. 498—Miners Water Gauge—Glass "U" Tube mounted on hard wood back with spirit level and brass nipple extending through back. Plain type scale graduated 0-5" in 1/10".  
Price ..... \$4.50

No. 499—Ditto, except with Rack and Pinion for Zero adjustment.  
Price ..... \$6.00

# TEMPERATURE CONVERSION TABLES

by PROF. ALBERT SAUVEUR

The numbers between the columns marked C. and F. refer to the temperature, either Centigrade or Fahrenheit, which it is desired to convert into the other scale. Conversion from Fahrenheit to Centigrade, find equivalent temperature in the column marked C., and if converting from Centigrade to Fahrenheit, find equivalent temperature in column marked F.

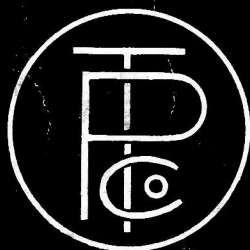
(Printed through courtesy and permission of Chemical and Metallurgical Eng.)

-40 to 0		C.		F.		C.		F.		C.		F.		C.		F.			
C.	F.	— 5.6	22	71.6	31.1	88	190.4	67.2	153	307.4	103.3	218	424.4	140.6	285	545.0			
—40.0	—40	— 5.0	23	73.4	31.7	89	192.2	67.8	154	309.2	103.9	219	426.2	141.1	286	546.8			
—39.4	—39	— 4.4	24	75.2				68.3	155	311.0	104.4	220	428.0	141.7	287	548.6			
—38.9	—38	— 3.9	25	77.0	32.2	90	194.0	68.9	156	312.8	105.0	221	429.8	142.2	288	550.4			
—38.3	—37	— 3.3	26	78.8	32.8	91	195.8	69.4	157	314.6	105.6	222	431.6	142.8	289	552.2			
—37.8	—36	— 2.8	27	80.6	33.3	92	197.6	70.0	158	316.4	106.1	223	433.4	143.3	290	554.0			
—37.2	—35	— 2.2	28	82.4	33.9	93	199.4	70.6	159	318.2	106.7	224	435.2	143.9	291	555.8			
—36.7	—34	— 1.7	29	84.2	34.4	94	201.2	71.1	160	320.0	107.2	225	437.0	144.4	292	557.6			
—36.1	—33	— 1.1	30	86.0	35.0	95	203.0	71.7	161	321.8	107.8	226	438.8	145.0	293	559.4			
—35.6	—32	— 0.6	31	87.8	35.6	96	204.8	72.2	162	323.6	108.3	227	440.6	145.6	294	561.2			
—35.0	—31	0.0	32	89.6	36.1	97	206.6	72.8	163	325.4	108.9	228	442.4	146.1	295	563.0			
—34.4	—30	+ 0.6	33	91.4	36.7	98	208.4	73.3	164	327.2	109.4	229	444.2	146.7	296	564.8			
—33.9	—29	1.1	34	93.2	37.2	99	210.2	73.9	165	329.0	110.0	230	446.0	147.2	297	566.6			
—33.3	—28	1.7	35	95.0	37.8	100	212.0	74.4	166	330.8	110.6	231	447.8	147.8	298	568.4			
—32.8	—27	2.2	36	96.8	<b>101 to 200</b>				75.0	167	332.6	111.1	232	449.6	148.3	299	570.2		
—32.2	—26	2.8	37	98.6	38.3	101	213.8	75.6	168	334.4	111.7	233	451.4	148.9	300	572.0			
—31.7	—25	3.3	38	100.4	38.9	102	215.6	76.1	169	336.2	112.2	234	453.2	<b>305 to 550</b>					
—31.1	—24	3.9	39	102.2	39.4	103	217.4	76.7	170	338.0	112.8	235	455.0	151.7	305	581.0			
—30.6	—23	4.4	40	104.0	40.0	104	219.2	77.2	171	339.8	113.3	236	456.8	154.4	310	590.0			
—30.0	—22	5.0	41	105.8	40.6	105	221.0	77.8	172	341.6	113.9	237	458.6	157.2	315	599.0			
—29.4	—21	5.6	42	107.6	41.1	106	222.8	78.3	173	343.4	114.4	238	460.4	160.0	320	608.0			
—28.9	—20	6.1	43	109.4	41.7	107	224.6	78.9	174	345.2	115.0	239	462.2	162.8	325	617.0			
—28.3	—19	6.7	44	111.2	42.2	108	226.4	79.4	175	347.0	115.6	240	464.0	165.6	330	626.0			
—27.8	—18	7.2	45	113.0	42.8	109	228.2	80.0	176	348.8	116.1	241	465.8	168.3	335	635.0			
—27.2	—17	7.8	46	114.8	43.3	110	230.0	80.6	177	350.6	116.7	242	467.6	171.1	340	644.0			
—26.7	—16	8.3	47	116.6	43.9	111	231.8	81.1	178	352.4	117.2	243	469.4	173.9	345	653.0			
—26.1	—15	8.9	48	118.4	44.4	112	233.6	81.7	179	354.2	117.8	244	471.2	176.7	350	662.0			
—25.6	—14	9.4	49	120.2	45.0	113	235.4	82.2	180	356.0	118.3	245	473.0	179.4	355	671.0			
—25.0	—13	10.0	50	122.0	45.6	114	237.2	82.8	181	357.8	118.9	246	474.8	182.2	360	680.0			
—24.4	—12	10.6	51	123.8	46.1	115	239.0	83.3	182	359.6	119.4	247	476.6	185.0	365	689.0			
—23.9	—11	11.1	52	125.6	46.7	116	240.8	83.9	183	361.4	120.0	248	478.4	188.2	370	698.0			
—23.3	—10	11.7	53	127.4	47.2	117	242.6	84.4	184	363.2	120.6	249	480.2	190.6	375	707.0			
—22.8	— 9	12.2	54	129.2	47.8	118	244.4	85.0	185	365.0	121.1	250	482.0	193.3	380	716.0			
—22.2	— 8	12.8	55	131.0	48.3	119	246.2	85.6	186	366.8	121.7	251	483.8	196.1	385	725.0			
—21.7	— 7	13.3	56	132.8	48.9	120	248.0	86.1	187	368.6	122.2	252	485.6	198.9	390	734.0			
—21.1	— 6	13.9	57	134.6	49.4	121	249.8	86.7	188	370.4	122.8	253	487.4	201.7	395	743.0			
—20.6	— 5	14.4	58	136.4	50.0	122	251.6	87.2	189	372.2	123.3	254	489.2	204.4	400	752.0			
—20.0	— 4	15.0	59	138.2	50.6	123	253.4	87.8	190	374.0	123.9	255	491.0	207.2	405	761.0			
—19.4	— 3	15.6	60	140.0	51.1	124	255.2	88.3	191	375.8	124.4	256	492.8	210.0	410	770.0			
—18.9	— 2	16.1	61	141.8	51.7	125	257.0	88.9	192	377.6	125.0	257	494.6	212.8	415	779.0			
—18.3	— 1	16.7	62	143.6	52.2	126	258.8	89.4	193	379.4	125.6	258	496.4	215.6	420	788.0			
—17.8	0	17.2	63	145.4	52.8	127	260.6	90.0	194	381.2	126.1	259	498.2	218.3	425	797.0			
		17.8	64	147.2	53.3	128	262.4	90.6	195	383.0	126.7	260	500.0	221.1	430	806.0			
		18.3	65	149.0	53.9	129	264.2	91.1	196	384.8	127.2	261	501.8	223.9	435	815.0			
		18.9	66	150.8	54.4	130	266.0	91.7	197	386.6	127.8	262	503.6	226.7	440	824.0			
		19.4	67	152.6	55.0	131	267.8	92.2	198	388.4	128.3	263	505.4	229.4	445	833.0			
		20.0	68	154.4	55.6	132	269.6	92.8	199	390.2	128.9	264	507.2	232.2	450	842.0			
		20.6	69	156.2	56.1	133	271.4	93.3	200	392.0	129.4	265	509.0	235.0	455	851.0			
		21.1	70	158.0	56.7	134	273.2	93.9	201	393.8	130.0	266	510.8	237.8	460	860.0			
		21.7	71	159.8	57.2	135	275.0	94.4	202	395.6	130.6	267	512.6	240.6	465	869.0			
		22.2	72	161.6	57.8	136	276.8	95.0	203	397.4	131.1	268	514.4	243.3	470	878.0			
		22.8	73	163.4	58.3	137	278.6	95.6	204	399.2	131.7	269	516.2	246.1	475	887.0			
		23.3	74	165.2	58.9	138	280.4	96.1	205	401.0	132.2	270	518.0	248.9	480	896.0			
		23.9	75	167.0	59.4	139	282.2	96.7	206	402.8	132.8	271	519.8	251.7	485	905.0			
		24.4	76	168.8	60.0	140	284.0	97.2	207	404.6	133.3	272	521.6	254.4	490	914.0			
		25.0	77	170.6	60.6	141	285.8	97.8	208	406.4	133.9	273	523.4	257.2	495	923.0			
		25.6	78	172.4	61.1	142	287.6	98.3	209	408.2	134.4	274	525.2	260.0	500	932.0			
		26.1	79	174.2	61.7	143	289.4	98.9	210	410.0	135.0	275	527.0	262.8	505	941.0			
		26.7	80	176.0	62.2	144	291.2	99.4	211	411.8	135.6	276	528.8	265.6	510	950.0			
		27.2	81	177.8	62.8	145	293.0	100.0	212	413.6	136.1	277	530.6	268.4	515	959.0			
		27.8	82	179.6	63.3	146	294.8	100.6	213	415.4	136.7	278	532.4	271.1	520	968.0			
		28.3	83	181.4	63.9	147	296.6	101.1	214	417.2	137.2	279	534.2	273.9	525	977.0			
		28.9	84	183.2	64.4	148	298.4	101.7	215	419.0	137.8	280	536.0	276.7	530	986.0			
		29.4	85	185.0	65.0	149	300.2	102.2	216	420.8	138.3	281	537.8	279.5	535	995.0			
		30.0	86	186.8	65.6	150	302.0	102.8	217	422.6	138.9	282	539.6	282.3	5				



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THE PHILADELPHIA THERMOMETER COMPANY

PHILADELPHIA INDUSTRIAL THERMOMETERS