



SINGLE OR DUAL MAX-MIN LAZY HANDS



FOUR MAGNET INDUSTRIAL RAILROAD THERMOMETER



FULLY ENCLOSED SURFACE THERMOMETER



DIRECT CONTACT SPOT CHECK®



SPRING HELD PIPE-SURFACE



CLIP-ON PIPE-SURFACE THERMOMETER



MINIATURE SPOT CHECK® THERMOMETER



IR OVEN & SURFACE THERMOMETER

LOW COST DIGITAL







DIGITAL THERMOMETER

WITH PROBE ATTACHED



DIGITAL THERMOCOUPLE THERMOMETER



SURFACE THERMOMETERS



3 | 0 - 478 - | | 34

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STANDARD DUAL MAGNET MOUNT



Model 313F

Over one million of these accurate, affordable surface thermometers are in service throughout the world. For more than fifty years PTC[®] has been manufacturing this series of specialized thermometers.

WITH MANY TEMPERATURE RANGES TO CHOOSE FROM, THE DUAL MAGNET SURFACE THERMOMETER IS THE LOGICAL CHOICE FOR MAKING SURFACE MEASUREMENTS.



Cross-section of our surface thermometer

	MODEL	RANGE		DIVISIONS
t	3 I2F	0°F то ;	250°F	2°F
hei	3 I3F	0°F то 5	500°F	5°F
ren	3 I4F	50 [°] F то ⁻	750°F	Ю°F
Fahrenheit	3 I5F	О° Ето	50°F	۱۴
Щ	330F	- IOO°F то +	160°F	2°F
	3120	-20°F то +	120°C	3°I
SU	3130	-20°С то +2	250℃	2°C
Si	3 I4C	ю°С то ∠	2°004	5°C
Celsius	3 I5C	- I5 [°] С то -	-65℃	3°I
	330C	-70°С то -	-70℃	2°C

SINGLE OR DUAL MAX-MIN LAZY HANDS

SINGLE ANCILLARY HAND

This handy, resettable peak reading hand is available as an accessory on PTC $\ensuremath{\mathbb{R}}$'s Dual Magnet Mount, Four Magnet Mount, and Tab Mount Surface Thermometers. The ancillary hand is reset by turning the reset knob on the front of the thermometer. A non-impeding magnetic clutch holds the hand in place at either the maximum or minimum temperature reached during a cycle.

DUAL MAX-MIN ANCILLARY HANDS

MAX-MIN HANDS ARE AVAILABLE ON PTC®'S DUAL MAGNET MOUNT, FOUR MAGNET MOUNT, AND TAB SURFACE THERMOM-ETERS AS AN ACCESSORY. THE MAX-MIN HANDS REMAIN AT THE HIGHEST AND LOWEST TEMPERATURES REACHED UNTIL THEY ARE RESET. HANDS ARE RESET BY USING THE RESET KNOB AND MAG-NETIC WAND (PART NUMBER 3 14.5 MM).

Magnetic Wand (Part number 314,5 MM).

Features

- Accuracy is ±2% of Full Scale Range
- 2" Diameter x 1/2" High
- Weighs only 1-1/2 oz.
- Select from Fahrenheit or Celsius Ranges
- Optional Single or Dual Max-Min Hands
- Optional Tab Mounts



Model 312F MM shown above

FOUR MAGNET INDUSTRIAL RAILROAD



Model 350FRR

	MODEL	RANGE	DIVISIONS
	350FRR	-20°F то +160°F	2°
∋it	3 I2FRR	0°F то 250°F	2°
hhe	3 I3FRR	0°F то 500°F	5°
Fahrenheit	3 14FRR	50°F то 750°F	10°
Fai	3 15FRR	0°F то 150°F	۱°
	330FRR	- 100°F то +160°F	2°
	350CRR	-30℃ то +70℃	۱°
S	3 I2CRR	-20℃ то +120℃	۱°
siu	3 I3CRR	-20℃ то +250℃	2°
Celsius	3 14CRR	10°С то 400°С	5°
0	3 15CRR	-15℃ то +65℃	۱°
	330CRR	-70°С то +70°С	2°

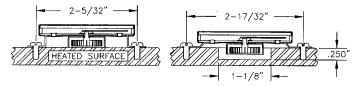
Features

- Accuracy of ±2% of Full Scale Range
- 2" Diameter X 1/2" High
- Weighs only 2 oz.
- Select from Fahrenheit or Celsius Ranges
- Optional Single or Dual Max-Min Hands

ON-SURFACE & IN-SURFACE TAB MOUNTED

TAB MOUNTS CAN BE ORDERED IN PLACE OF THE STANDARD DUAL MAGNETS. TWO TYPES OF TABS ARE AVAILABLE FOR THESE THER-MOMETERS. TAB I IS AN ON-SURFACE MOUNT AND TAB 2 IS AN IN-SURFACE TYPE MOUNT. THE DRAWINGS SHOW BOTH STYLES OF MOUNTING.

FOR IN-SURFACE MOUNTING, A HOLE I- I/8" DIAMETER BY I/4" DEEP NEEDS TO BE MACHINED IN THE SURFACE TO BE MEASURED. PILOT HOLES ALSO NEED TO BE DRILLED FOR THE TAB MOUNTING SCREWS. BOTH STYLES OF TABS HAVE HOLES FOR THE SCREWS. WHEN ORDERING, PLEASE SPECIFY WHETHER TAB I OR TAB 2 MOUNTING IS REQUIRED.



TAB 1 On-Surface Mount TAB 2 In-Surface Mount

	MODEL	RANGE	DIVISIONS
t	3 12FT I OR T2	0°F то 250°F	2°
iei	3 13FT I OR T2	0°F то 500°F	5°
lua.	3 4FT or T2	50°F то 750°F	ю°
Fahrenhei t	3 15FT 1 OR T2	0°F то 150°F	۱°
Ц	330FT or T2	- 100°F то +160°F	2°
	3 12CT 1 OR T2	-20°С то +120°С	lo
SN	3 I3CT I OR T2	-20℃ то +250℃	2°
Celsius	3 14CT 1 or T2	Ю°С то 400°С	5 [°]
Сел	3 15CT OR T2	- I5℃ то +65℃	۱°
	330CT I OR T2	-70°С то +70°С	2°

FULLY ENCLOSED SURFACE THERMOMETER



Model 310C

RANGE

-50°F TO +250°F

-50°С то + 110°С

- Ю°С то + 150°С

70°F то

20°С то

0°F TO 300°F

370°F

180°C

DIVISIONS

2°F

2°F

2°F

2°C

2°C

2°C

Fahrenheit

Celsius

MODEL

309F

3 IOF

31IF

3090

3 100

3110

Features

- Fully Enclosed--Bimetal Protected from Damage
- Accuracy is ±2% of Full Scale Range
- 2" Diameter X 1/2" High
- Weighs only 1 oz.
- Select from Fahrenheit or Celsius Ranges

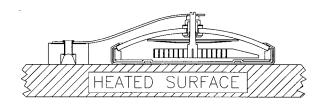
These handy surface temperature thermometers have served the industry for over fifty years. With their unique design, the bimetal sensor is protected from contaminants and damage from handling.

With an accuracy of $\pm 2\%$ of full scale range, these thermometers give fast and accurate temperature measurements with an inexpensive instrument.

ACCESSORIES

Part No. 3 10.7 Magnet & Leaf Spring. Part No. 3 10.8 Silicone Grease Adhesive.

These accessories can be used to attach the thermometer to almost any flat nonhorizontal surface. The magnet & Leaf Spring will hold the thermometer to any magnetic (ferrous) surface. Applying a thin coat of the silicone grease to the back of the thermometer will hold it to a nonmagnetic surface.

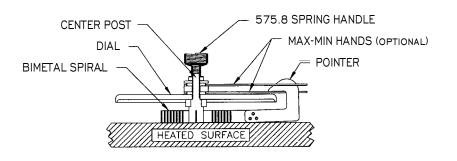


Cross-section of fully enclosed surface thermometer shown with optional magnet & leaf spring accessory.



DIRECT CONTACT SPOT CHECK®





	RAN	GE	DIV	BASIC THERMOMETER MODEL NO.	WITH MAGNET & LEAF SPRING MODEL NO.	WITH MAX-MIN HANDS & 3 IO.7 MODEL NO.	WITH STAINLESS STEEL DIAL MODEL NO.	
ei t	0°Ғ то	270°F	2°	570F	570FM	577FM	-	
nhe	50 [°] F то	320°F	2°	57 IF	57 IFM	578FM	-	
^r ahrenheit	50 [°] F то	500°F	5°	572F	572FM	574FM	•	
Fat	50 [°] F то	1000°F	10°	573F	573FM	575FM	575FMSS	
1S	ю°С то	160℃	۱°	57 IC	57 ICM			
Celsius	от 3 ⁰ 01	260°C	2°	572C	572CM	574CM		
[e]	о°С то	525℃	5°	573C	573CM	575CM	575CMSS	

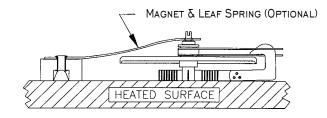
 $\label{eq:ptc} {\sf PTC} @ `s ~ {\sf Spot Check} @ ~ {\sf Series of thermometers feature} \\ {\sf outstanding response and sensitivity}. Their extremely \\ {\sf low thermal mass and weight (I/2 ounce), along with a} \\ {\sf unique design, assure intimate contact and a very} \\ {\sf rapid readout}. \\ \end{cases}$

The basic thermometer is intended for horizontal or slightly curved surfaces. Three options for this basic model are available:

- I. THERMOMETER WITH MAGNET & LEAF SPRING (3 IO.7) FOR ATTACHING TO NONHORIZONTAL FERROUS SURFACES
- 2. Thermometer with Max-Min Hands and Magnet & Leaf Spring (3 10.7)
- 3. Thermometer with Stainless Steel Dial, Max-Min Hands, and Magnet & Leaf Spring (3 IO.7)

Features

- Very Fast Response Time
- Accuracy is ±2% of Full Scale Range
- 1-3/4" Diameter X 1/2" High
- Weighs only 1/2 oz.
- Select from Fahrenheit or Celsius Ranges
- Optional Dual Max-Min Hands



SPRING HELD PIPE-SURFACE THERMOMETER

Features

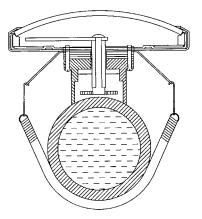
- For Pipes with 0.D.'s of 3/4" and up
- Accuracy is ±2% of Full Scale Range
- 2" Diameter X 1" High
- Weighs only 1-1/2 oz.
- Select from Fahrenheit or Celsius Ranges
- Spring Kit Included with Each Thermometer

MODEL	RANGE	DIVISIONS	
483F	0°F то 150°F	2°F	it
486F	-50°F то +250°F	2°F	ayı
487F	70°F то 370°F	2°F	ahrenhei
488F	70°F to 500°F	5°F	Fah

MODEL	RANGE	DIVISIONS	
483C	-20℃ то +70℃	2°C	S
486C	-40°С то +120°С	2°C	celsius
487C	20°С то 180°С	2°C	ele
488C	20°С то 260°С	2°C	0



Model 483F shown



Cross-section of spring held pipe-surface thermometer shown mounted to pipe

These handy pipe-surface thermometers will fit pipes having O.D.'s of 3/4" and up. An included spring kit allows the instrument to be attached to a pipe or cylinder up to 6" in diameter. Additional kits can be ordered and the springs combine to accommodate larger diameters. The spring kit (Part No. 486.84) includes three stainless steel springs 3/4", 2", and 4" in length. Clips are also included to attach the springs to the thermometer.

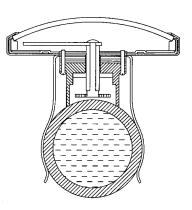
The bimetal sensor is protected from drafts by an insulating cup which also acts as the unit's base. The cup is made from high-temperature plastic for the lower ranges. Models 488F & 488C have an aluminum insulating cup for higher temperature use (up to 500° F).



CLIP-ON PIPE-SURFACE THERMOMETER



Model 484 shown with Large, Medium and Small Clip



Cross-section of clip-on pipe-surface thermometer shown mounted to pipe.

	RANGE	DIV.	For Pipe 0.D.'s 3/4" to 7/8"	For Pipe 0.D.'s I" to 1-5/8"	For Pipe 0.D.'s I-5/8" to 2-3/8"
Fahrenheit	0°F το 150°F	2°	483FS	483FM	483FL
	-50°F το +250°F	2°	484FS	484FM	484FL
	70°F το 370°F	2°	485FS	485FM	485FL
Celsius	-20℃ то +70℃	2°	483CS	483CM	483CL
	-40℃ то +120℃	2°	484CS	484CM	484CL
	20℃ то 180℃	2°	485CS	485CM	485CL

Calibrated and designed for pipe-surface temperature measurement, these thermometers can be used on pipes up to $2 \cdot 3/8$ " diameter (3/4" minimum diameter). For larger diameter pipes, our spring held thermometers are available.

Ease of use and low cost make these instruments indispensable for monitoring pipe temperatures. Thermometers have an accuracy of $\pm 2\%$ of full scale range.

Features

- Accuracy is ±2% of Full Scale Range
- Snaps Instantly Into Place
- Sizes to Fit 3/4" to 2-3/8" O.D. Pipes
- 2" Diameter X 1" High
- Weighs Approximately 1 oz.
- Select from Six Temperature Ranges
- Fast Response Time

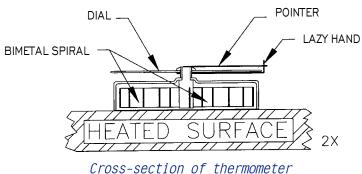
MINIATURE SPOT CHECK® THERMOMETER



Model 675F shown actual size

MODEL	RANGE	DIVISIONS	
674F	0°F то 250°F	2°F	heit
675F	0°F то 500°F	2°F	ahrenhei
676F	50우 то 750우	10°F	Fah

MODEL	RANGE	DIVISIONS	
674C	0℃ то I35℃	5°C	Celsius
675C	-20℃ то +250℃	5°C	
676C	I0℃ то 400℃	5°C	



on heated surface,



Features

- 3/4" Diameter X 3/8" High
- Weighs only 0.2 oz.
- Accuracy is ±2% of Full Scale Range
- Select from Fahrenheit or Celsius Ranges

These thermometers will measure surface temperatures in a space as small as 1" x 1"; with an accuracy of \pm 2% of full scale range. The small size of these instruments allows minimum "heat-stealing" from the heated surface.

The bimetal sensor is protected from drafts with a cup which also acts as the unit's base. The bimetal sensor comes in close thermal contact with the surface to be measured, providing the thermometer with a fast response time.

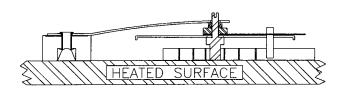
THE 675 SERIES CAN BE USED FOR TESTING THE TEMPERATURE OF ELECTRONIC PARTS. AN ISOTHERM OF AN AREA CAN BE CON-STRUCTED BY EMPLOYING SEVERAL OF THESE INSTRUMENTS AND THEN PLOTTING THE READINGS.

IR OVEN & SURFACE



Model 580F shown above

	MODEL	RANGE	DIVISIONS
Fahrenheit	580F 580FM WITH 3 10.7	50°F то 800°F 50°F то 800°F	10°F 10°F
	MODEL	RANGE	DIVISIONS

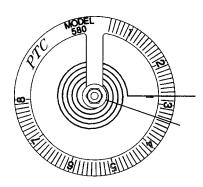


Cross-section of thermometer held in place with 310.7 magnet & leaf spring shown on heated surface.

THESE I/R THERMOMETERS ARE DESIGNED TO MEASURE THE RADIATION TEMPERATURE OF A SOURCE. AL-THOUGH SPECIFICALLY INTENDED FOR RADIATION TEM-PERATURES, THESE THERMOMETERS WILL ALSO ACCU-RATELY MEASURE SURFACE TEMPERATURES.

RADIATION TEMPERATURES FROM SOURCES SUCH AS: CALRODS, WIRE AND RIBBON RESISTANCE HEATING ELEMENTS, GAS OPERATED HEAT TRANSFER PANELS, AND INCANDESCENT LAMPS CAN BE MEASURED.

THESE MODELS COME WITH A MAXIMUM READING HAND, WHICH WILL RETAIN THE HIGHEST TEMPERATURE REACHED DURING A CYCLE.



Features

- I.R. Oven & Surface Thermometer
- Accuracy is ±3% of Full Scale Range
- 1-21/32" Diameter X 9/16" High
- Weighs Approximately 0.2 oz.
- Very Fast Response
- Models 580FM & 580CM Come with Magnet
 & Leaf Spring

LOW COST DIGITAL THERMOMETER & PROBES



MODEL	RANGE	DIVISIONS
3 1308-KF	- 100°F то + 1000°F	۱۴
3 I308-KC	- I20°С то +550°С	Ο°I

This low cost digital model features interchangeable probes for all applications with a range of -100° to $+1000^{\circ}$ for -120° to $+550^{\circ}$. Instrument includes a 9-Volt battery which provides up to 2,000 hours of operation. Display is easy to read with 3/8" high numerals.

CHOSE FROM FOUR DIFFERENT PROBE STYLES: SURFACE (3 1907-K), AIR (3 1903-K), IMMERSION (3 1901-K), AND BARE TIP (3 1905-K). PROBES ARE ANSI TYPE K WITH MINI CONNECTORS. PROBES ARE NOT INCLUDED WITH THE INSTRUMENT AND MUST BE ORDERED AS SEPARATE ITEMS.

PROBE TYPES	MODEL	
SURFACE	З 1907-К	
AIR	З 1903-К	
IMMERSION	3 190 I-K	
BARE TIP	З 1905-К	

DIGITAL THERMOMETER WITH PROBE ATTACHED

MODEL	RANGE	DIVISIONS	Ŀ
33035	-115.0°F то +500.0°F	. I ^o or I ^o	
	-80.0℃ то+260.0℃		

This model features outstanding accuracy and ease of use, combined with durability and low cost. The unit's display is switchable between $^{\circ}$ F and $^{\circ}$ C readouts. Accuracy is $\pm 0.9^{\circ}$ F (or $\pm 0.5^{\circ}$ C).

The thermometer is sealed against moisture, dirt, and other contaminants. The instrument's handle and cable can withstand temperatures up to 400° F, Cable length is 32".



Model 33035 Digital Thermometer with Flat Surface Bell Probe



DIGITAL THERMOCOUPLE THERMOMETER



Model 39658

MODEL 39658

INTERCHANGEABLE PROBES PROVIDE VERSATILITY FOR THIS ACCURATE AND DURABLE DIGITAL THERMOMETER. THE THERMOMETER IS SWITCHABLE FROM °F OR °C READINGS AND THE DISPLAY DIGITS ARE I/2" TALL, MAK-ING THEM VERY EASY TO READ.

Accuracy is $\pm 1\%$ of reading $\pm 1^{\circ}$ over range of - 122°T to + 1999°F with the instrument itself at room temperature (20°C to 30°C). Three thermocouple types are available and probe styles are listed below.

MODEL 38653

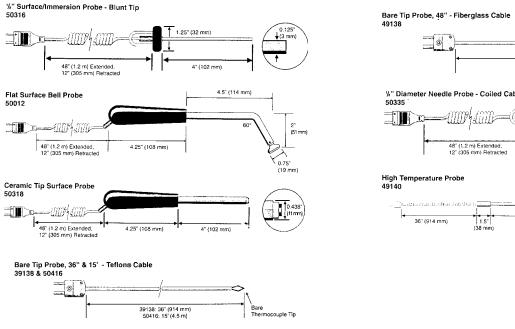
Stainless Steel Housing This digital thermometer is rugged, accurate, and pocketsized. This thermometer can be switched to read in either °F or °C and can be used with any probe listed below. Display is black-on-silver LCD digits, 0.35" tall. The thermometer weighs only 5 ounces.

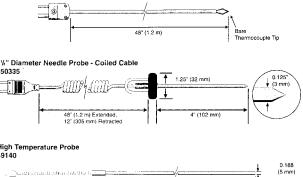
Accuracy is $\pm 0.7\%$ of reading $\pm 1^{\circ}C$ (1.8°F). Three different ranges are available using Type J,K, or T thermocouples.

Model 38653

TYPE RANGE	TYPE RANGE
J -112℉ то +1382℉ & -80℃ то +750℃	J -76°F TO +1400°F & -60°C TO +760°C
К -112°F то +1999°F & -80°С то +1100°С	К -40° то +1832° & -40° то +1000°
Т -112℉ то +752℉ & -80℃ то +400℃	Т -76° то +662° ₹ & -60°С то +350°С

PROBE TYPES FOR MODEL 39658 & 38653 DIGITAL THERMOMETERS







3 0 - 478 - 13



IMMERSION THERMOMETERS



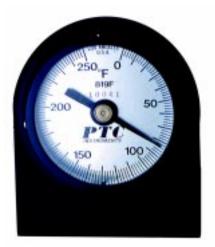
RECORDING THERMOMETER Model 615



OVEN RECORDING OVEN THERMOMETER Model 618

STEM THERMOMETER





AIR IMMERSION THERMOMETER Model 819F with optional desk stand



STAINLESS STEEL ALL-ANGLE STEM THERMOMETER

STAINLESS STEEL



AIR IMMERSION WALL THERMOMETER Model 815F