

Pick the thermometer type (digital, dial, bulb) that best suits your application. Need it fast? Be sure to let us know. We can get most thermometers within a week.



	Prices Start at	See Page
Digital Display Thermometers		
Ametek US Gauge DT-8310 Digital Temperature Indicators	\$465.63	445
Cooper Atkins Digital Type K Thermocouple Probe Thermometer	\$170.00	441
Taylor Pocket Instant Read Digital Thermometers	\$18.00	441
Wahl DIGI-STEM NEMA 4X Enclosed Digital Display Thermometers	\$392.40	445
WIKA Multi-Angle Solar-Powered Digital Thermometers	\$184.09	442
Field-Mount Dial Thermometers		
Reotemp Vapor-Actuated Remote Reading Dial Thermometers	\$53.13	444
Taylor 2" Dial Stainless Steel and Plastic Thermometers	\$24.50	441
WIKA 2" Dial Surface Mount Bimetallic Dial Thermometers	\$23.96	442
WIKA 3" and 5" Dial Bimetallic Thermometers	\$48.73	443
WIKA Twin-Temp Bimetallic Thermometers with Sensor Outputs	\$435.99	444
Industrial Bulb and Tube Thermometers		
Ametek U S Gauge T571/572 Glass Tube Thermometers	\$12.32	441
Taylor Bulb and Tube Thermometers	\$22.50	441
WIKA 360° Adjustable Angle Industrial Thermometer	\$58.54	442
Infrared Thermometers		
Ametek Land Cyclops Portable Digital Infrared Thermometers	Call	440
Pocket Digital and Dial Thermometers		
Taylor 1" Dial Pocket Thermometers	\$12.25	441
Taylor Pocket Instant Read Digital Thermometers	\$18.00	441
Special Application Thermometers		
Wahl Temp-Plates® Four-Position Temperature Recording Labels	\$27.80	446
Accessories		
Bimetal and Industrial Thermowells	\$21.45	442



Prices in this catalog are current at the publication date, and are subject to change without notice. Due to manufacturer agreements, not all products are available in all geographic areas and markets.

Cyclops High-Precision Portable Infrared Thermometers

Features

- Advanced spectral filtering delivering improved accuracy and repeatability in real process applications
- Multi-functional graphics panel including simultaneous displays of continuous, average, peak and valley temperatures
- Rugged case for ability to withstand hostile environments
- Expanded datalogging to DL-1000 v2 with classic, historical and burst modes
- Calibrated and traceable to national standards



Need help with infrared thermometry? Fill out the Ametek Land application datasheet at www.Lesman.com/datasheets and return it to Lesman for an engineering review.



Which Cyclops thermometer is right for you?

Address orders to: Ametek Land Inc.,
c/o Lesman Instrument Company

Model/Spec	Cyclops 160(B)	Cyclops 100(B)	Cyclops 390B Furnace Pro	Cyclops 055 Meltmaster
Measuring Range	392° to 2552°F 200° to 1400°C	1022° to 5432°F 550° to 3000°C	842° to 2552°F 450° to 1400°C	1832° to 3632°F 1000° to 2000°C
Indication	4-digit LCD in viewfinder; External backlit LCD display		4-digit LCD in viewfinder, external backlit LCD, Display holds 30 seconds after switch off, display blinks when temperature exceeds measurable range	4-digit LCD in viewfinder; External backlit LCD display
Measuring Modes	Continuous, average, peak, valley			Peak, continuous, valley, and advanced MeltMaster processing functions
Datalogging	To iPAQ or laptop/PC running DL1000 v2 software Classic, historic, burst modes			
Optical System	9° field of view; 1/3° measurement area (180:1 to 98% energy); Eyepiece adjustable -3.75 to 2.5 diopters		9° field of view; 1/3° square measuring area. Single lens reflex system	9° field of view; 1/3° measurement area (180:1 to 98% energy); Eyepiece adjustable -3.75 to 2.5 diopters
Focusing Range	39.3" (1m) to infinity 450–620mm, 17.7"–24.5" with optional 8.5" (215mm) fixed focus closeup lens		40" (1m) to infinity	Fixed focus, nominally at 197" (5m) from thermometer body datum
Target Size	0.19" at 39.3" (5mm at 1m); 0.07" (1.8mm), 0.016" (0.4mm) with optional closeup lens		0.19" square at 39.9" nominal (4.8mm at 101.4cm) from the thermometer body datum	Nominally a constant 1.1" (28mm) target spot diameter from lens to 197" (5m)
Spectral Response	1.6µm with advanced spectral filtering	1µm with advanced spectral filtering	3.9µm	Nominally 0.55 µm
Emissivity	Adjustable 0.1" – 1.2" in 0.01 step graduations			
Accuracy	≤0.25% +2°C	<0.25%(K) of reading	≤0.5% C/F of reading	<0.5%(K) of reading
Repeatability	≤2°F (1°C)		<1%(K) of reading	
Battery Type	One MN1604/6LR61/PP3		One 9V	One MN1604/6LR61/PP3
Output	RS232C and Bluetooth	RS232C only or RS232C and Bluetooth	RS232C and Bluetooth	RS232C only or RS232C and Bluetooth
Standard Accessories	Lens cap, protection window and filter, battery, wrist strap			Lens cap, protection window and filter, battery, wrist strap, and heat protection jacket
Options	Closeup lenses, DL1000 datalogger, HP iPAQ, rugged waterproof carrying case, long eye relief (LER) eyepiece	Closeup lenses, DL1000 datalogger, HP iPAQ, rugged waterproof carrying case	DL1000 datalogger, HP iPAQ, heat protection jacket, rugged waterproof carrying case, LER eyepiece	DL1000 datalogger, rugged waterproof carrying case, LER eyepiece

Call for pricing and delivery.

Due to manufacturer agreements, these products may not be available in all Lesman markets or geographic areas.



Digital, Dial and Glass Bulb Thermometers

Digital Instant Read Thermometer

- Stainless steel stem
- One-second update
- On/off switch for long battery life; Spare battery included
- 0.1° F resolution to 199.9° F
- Protective stem cover
- -58° to 302° F or °F/°C switchable

Wide temperature range for measurement during food preparation, service, and storage. Flattened profile face style keeps thermometer from rolling off counter tops or tables.



Scale	Catalog Number	Quantity	
		1-4	5+
Fahrenheit/Celsius Switchable	9841	18.00	16.20

2" Dial Thermometer

- Shock protected anti-parallax dial
- All stainless steel external parts
- External recalibration feature
- Plain case fitting — no threads
- Plastic lens
- Pointed stems



Range	Stem Length	Degrees/Division	Catalog Number	Quantity	
				1-4	5+
0° to 220°F	8"	2°	6215J	24.50	23.63
25° to 125°F	8"	1°	6212J	24.50	23.63
50° to 550°F	8"	5°	6220J	24.50	23.63

1" Dial Pocket Thermometer

- Furnished with Nylon case and pocket clip
- Polycarbonate crystal won't break
- All stainless steel externals
- Accuracy 1%
- 5" pointed stem
- Shock protected for long life



Range	Degrees/Division	Catalog Number	Quantity		
			1-4	5-11	12+
-50° to 550°F	5°	6073J	\$12.25	11.81	\$11.38
-40° to 120°F	2°	6071J	12.25	11.81	11.38
-40° to 160°F	2°	6076J	12.25	11.81	11.38
0° to 220°F	2°	6072J	12.25	11.81	11.38

5" Industrial Glass Tube Thermometers

Specifications

Length: Scale: 5"; Insertion: 1 3/8"

Range: 40°-200°F, 15°-125°C

Case: Drawn steel shell in white baked enamel. Case fits directly on the metal bulb shield forming an integral assembly.

Indication: Magnifying glass tube, filled with red liquid. Black scale printed on case shell.

Bulb Shield: Steel zinc-plated, scale may be oriented by rotating bulb within shield.

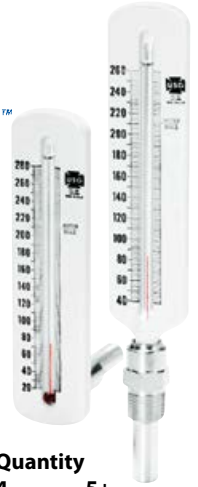
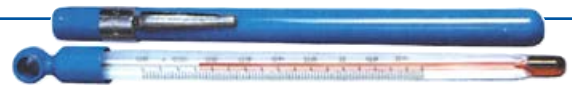


Figure Number	Connection	Catalog Number	Quantity	
			1-4	5+
T571	1/2" NPT Bottom	5640C	\$12.32	\$11.50
T572	1/2" NPT Back	19154C	20.25	18.90

Models with brass bulb shields also available.



Pocket Case Thermometers

Blue Delrin pocket cases have use limits of -70° to 225° F. If used intermittently the limit is 300° F except in steam, hot water, strong acids or strong bases.

Range	Degree/Division	Features	Catalog Number	Quantity	
				1-4	5+
5.5" Length, Delrin Plastic Case, Non-Refillable Tube*					
-30 to 120°F	2°	Mercury	21410-1J	\$25.00	\$22.50
-50 to 120°F	2°	Permacolor	21412-1J	22.50	20.25

* Non-refillable tubes are cemented into caps and cannot be replaced.

Type K Thermocouple Thermometer

Designed for the foodservice industry, the EconoTemp features a unique memory that stores calibration settings. A rubber boot protects the ABS plastic housing from damage.

Specifications

Accuracy: ±2°F (±1°C)

Power: Uses three AAA Alkaline cells (1500 hours of battery life), 10-minute "auto-off" preserves power

Immersion Probe: 1/8" diameter needle probe with 4" probe tip. 24" silicon jacketed, Kevlar®-reinforced cable. Max temperature 500° F.

Construction: Water-resistant ABS plastic case/keypad



Model Selection Guide

Description (Order Meter and One Probe)	Catalog Number	Price Each
EconoTemp Thermometer (-40° to 500°F Range)	32311-K	\$170.00
EconoTemp Plus Thermometer (-40° to 1000°F Range)	32322-K	228.90
1/8" Diam. Needle Probe, 4" Immersion Tip	31901-K	71.60

WIKAI Industrial Thermometers

Solar Powered Multi-Angle Digital Dial Thermometer

Specifications

- Case and Stem:** 304 stainless steel
- Lens:** Glass standard, acrylic available
- Connection:** 1/2" NPT, others available
- Sensor System:** Ceramic thermistor requires only 35 LUX to operate the 3-volt solar cell. 15-second update time, accuracy to ±1% scale. Patented safety circuit prevents false readings.
- Options:** 3/8" heavy duty stem, sharp tip, 316 stainless steel wetted parts.



Model Selection Guide

Stem Length		Catalog Number		Price Each
		-50° to 300° F	-50° to 150° C	
Adjustable Angle	2 1/2"	82025D2G4	82025D1G4	\$233.75
	4"	82040D2G4	82040D1G4	233.75
	6"	82060D2G4	82060D1G4	233.75
	9"	82090D2G4	82090D1G4	233.75
Back Connected	2 1/2"	80025D2G4	80025D1G4	184.09
	4"	80040D2G4	80040D1G4	184.09
	6"	80060D2G4	80060D1G4	184.09
	9"	80090D2G4	80090D1G4	184.09

Stem Lengths to 72" Available. Call for Details.

360° Adjustable Angle Industrial Thermometer

Specifications

- Accuracy:** ±1% scale range
- Case:** Black, V-shaped molded GE Valox® 735 polyester
- Adjustable Joint:** Matching GE Valox® joint completely encloses capillary for thermal system protection
- Locking Device:** Provides 360° positioning
- Stem:** Aluminum tapered metal-to-metal contact. Graphite conducting media between bulb chamber and glass
- Tube:** Magnifying lens with inert blue spirit reading
- Scale:** Permanently baked on, bold black graduations printed on white-coated aluminum



Model Selection Guide

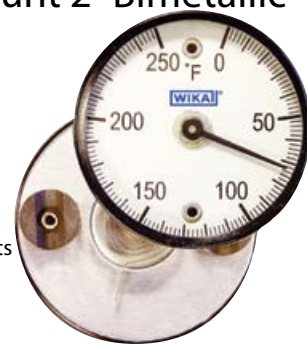
Scale	Stem	Range	Catalog Number	Quantity	
				1-4	5+
9"	3.5"	0/120° F/C	9010300004WI	\$58.54	\$43.91
9"	3.5"	0/120° F	9010300204WI	58.54	43.91
9"	3.5"	0/120° F	9010301204WI*	65.33	49.00
9"	3.5"	0/160° F	9010300205WI	58.54	43.91
9"	3.5"	0/160° F/C	9010300005WI	58.54	43.91
9"	3.5"	30/180° F	9010300206WI	58.54	43.91
9"	3.5"	30/240° F/C	9010300007WI	58.54	43.91
9"	3.5"	30/240° F	9010300207WI	58.54	43.91
9"	3.5"	30/240° F	9010301207WI*	65.33	49.00
9"	6"	0/120° F	9010600204WI	82.19	61.64
9"	6"	30/300° F	9010600208WI	82.19	61.64
9"	6"	30/300° F	9010601208WI*	82.19	61.64

* Includes 3/4" NPT brass thermowell.

Magnetic Surface Mount 2" Bimetallic Thermometer

Specifications

- Accuracy:** ±2% full scale
- Dial:** 2" polished aluminum with black markings
- Pointer:** Aluminum, matte black finish
- Case:** Steel case, 1/2" deep; dual magnets attach to any ferrous metal surface
- Sensing Element:** Precision calibrated bimetal coil



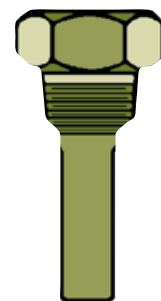
Model Selection Guide

	Temperature Range	Catalog Number	Price Each
2" Dial Surface Mount Bimetallic Thermometer	0 to 250°F	ST206MW	\$23.96
	0 to 500°F	ST228MW	23.96
	-20 to 120°C	ST106MW	23.96
	-70 to 70°C	ST101MW	23.96

Wells for Bimetal Thermometers and Thermocouples

Use with bimetal thermometers and thermocouples to permit convenient removal for calibration and repair. 1/2" NPT socket I.D., 1/4" internal diameter, 3/4" mounting thread. Call for 1" NPT mounting thread.

Need a well with a lagging extension to get through insulation? Just call, we've got them!!



Stem Length	Insertion Length	Thread Mount	Well Material	Catalog Number	Price Each
2 1/2"	1 5/8"	3/4" NPT	Brass	26P490B	\$21.45
2 1/2"	1 5/8"	3/4" NPT	304 Stainless Steel	26P490G	21.45
2 1/2"	1 5/8"	3/4" NPT	316 Stainless Steel	26P490J	26.73
2 1/2"	1 5/8"	1" NPT	Brass	26P491B	25.74
2 1/2"	1 5/8"	1" NPT	304 Stainless Steel	26P491G	25.74
2 1/2"	1 5/8"	1" NPT	316 Stainless Steel	26P491J	26.73
4"	2 1/2"	3/4" NPT	Brass	26P412B	23.10
4"	2 1/2"	3/4" NPT	304 Stainless Steel	26P412G	23.10
4"	2 1/2"	3/4" NPT	316 Stainless Steel	26P412J	28.38
6"	4 1/2"	3/4" NPT	Brass	26P414B	29.37
6"	4 1/2"	3/4" NPT	304 Stainless Steel	26P414G	29.37
6"	4 1/2"	3/4" NPT	316 Stainless Steel	26P414J	35.97
9"	7 1/2"	3/4" NPT	Brass	26P416B	44.59
9"	7 1/2"	3/4" NPT	304 Stainless Steel	26P416G	44.59
9"	7 1/2"	3/4" NPT	316 Stainless Steel	26P416J	59.99
12"	10 1/2"	3/4" NPT	Brass	26P418B	54.57
12"	10 1/2"	3/4" NPT	304 Stainless Steel	26P418G	54.57
12"	10 1/2"	3/4" NPT	316 Stainless Steel	26P418J	73.37



Block items are normally available to ship from stock.



WIKAL Bimetallic Dial Thermometers

WIKA Process-Grade Bimetallic Dial Thermometers

- Accurate to $\pm 1\%$ full scale
- All 304 stainless steel external parts, glass window with neoprene or silicone gasket, aluminum dial and pointer
- External reset hex head on case
- Dampened with inert gel to minimize pointer oscillation



**Back Connection,
3" and 5" Dials**

**Bottom Connection,
3" and 5" Dials**



Model Selection Guide

Dial	Stem	Range	Catalog Number	Quantity 1-4	Quantity 5+
Type TI.30 and TI.50 Bimetallic Thermometer, 1/2" NPT Back Mount					
3"	2.5"	-40° to 120° F	30025D202G4	\$48.73	36.55
3"	2.5"	-40° to 120° F and C	30025D002G4	48.73	36.55
3"	2.5"	0° to 250° F	30025D206G4	48.73	36.55
3"	2.5"	0° to 250° F and C	30025D006G4	48.73	36.55
3"	2.5"	50° to 550° F	30025D216G4	48.73	36.55
3"	2.5"	50° to 500° F and C	30025D010G4	48.73	36.55
3"	4"	-40° to 120° F	30040D202G4	48.73	36.55
3"	4"	-40° to 120° F and C	30040D002G4	48.73	36.55
3"	4"	0° to 250° F	30040D206G4	48.73	36.55
3"	4"	0° to 250° F and C	30040D006G4	48.73	36.55
3"	4"	50° to 550° F	30040D216G4	48.73	36.55
3"	4"	50° to 500° F and C	30040D010G4	48.73	36.55
3"	6"	-40° to 120° F	30060D202G4	48.73	36.55
3"	6"	-40° to 120° F and C	30060D002G4	48.73	36.55
3"	6"	0° to 250° F	30060D206G4	48.73	36.55
3"	6"	0° to 250° F and C	30060D006G4	48.73	36.55
3"	6"	50° to 550° F	30060D216G4	48.73	36.55
3"	6"	50° to 500° F and C	30060D010G4	48.73	36.55
3"	9"	-40° to 120° F	30090D202G4	48.73	36.55
3"	9"	-40° to 120° F and C	30090D002G4	48.73	36.55
3"	9"	0° to 250° F	30090D206G4	48.73	36.55
3"	9"	0° to 250° F and C	30090D006G4	48.73	36.55
3"	9"	50° to 550° F	30090D216G4	48.73	36.55
3"	9"	50° to 500° F and C	30090D010G4	48.73	36.55
3"	12"	-40° to 120° F	30120D202G4	54.55	40.91
3"	12"	-40° to 120° F and C	30120D002G4	54.55	40.91
3"	12"	0° to 250° F	30120D206G4	54.55	40.91
3"	12"	0° to 250° F and C	30120D006G4	54.55	40.91
3"	12"	50° to 550° F	30120D216G4	54.55	40.91
3"	12"	50° to 500° F and C	30120D010G4	54.55	40.91
5"	2.5"	-40° to 120° F	50025D202G4	71.92	53.94
5"	2.5"	-40° to 120° F and C	50025D002G4	71.92	53.94
5"	2.5"	0° to 250° F	50025D206G4	71.92	53.94
5"	2.5"	0° to 250° F and C	50025D006G4	71.92	53.94
5"	2.5"	50° to 550° F	50025D216G4	71.92	53.94
5"	2.5"	50° to 500° F and C	50025D010G4	71.92	53.94
5"	4"	-40° to 120° F	50040D202G4	71.92	53.94
5"	4"	-40° to 120° F and C	50040D002G4	71.92	53.94
5"	4"	0° to 250° F	50040D206G4	71.92	53.94
5"	4"	0° to 250° F and C	50040D006G4	71.92	53.94
5"	4"	50° to 500° F	50040D216G4	71.92	53.94
5"	4"	50° to 500° F and C	50040D010G4	71.92	53.94
5"	6"	-40° to 120° F	50060D202G4	71.92	53.94
5"	6"	-40° to 120° F and C	50060D002G4	71.92	53.94
5"	6"	0° to 250° F	50060D206G4	71.92	53.94
5"	6"	0° to 250° F and C	50060D006G4	71.92	53.94
5"	6"	50° to 500° F	50060D216G4	71.92	53.94
5"	6"	50° to 500° F and C	50060D010G4	71.92	53.94
5"	9"	-40° to 120° F	50090D202G4	71.92	53.94
5"	9"	-40° to 120° F and C	50090D002G4	71.92	53.94
5"	9"	0° to 250° F	50090D206G4	48.73	36.55
5"	9"	0° to 250° F and C	50090D006G4	71.92	53.94
5"	9"	50° to 500° F	50090D216G4	71.92	53.94
5"	9"	50° to 500° F and C	50090D010G4	71.92	53.94

Model Selection Guide

Dial	Stem	Range	Catalog Number	Quantity 1-4	Quantity 5+
Type TI.31 Bimetallic Thermometer, 1/2" NPT Bottom Mount					
3"	2.5"	-40° to 120° F	31025D202G4	\$82.50	\$61.88
3"	2.5"	0° to 250° F	31025D206G4	82.50	61.88
3"	2.5"	50° to 550° F	31025D216G4	82.50	61.88
3"	4"	-40° to 120° F	31040D202G4	82.50	61.88
3"	4"	0° to 250° F	31040D206G4	82.50	61.88
3"	4"	50° to 550° F	31040D216G4	82.50	61.88
3"	6"	-40° to 120° F	31060D202G4	82.50	61.88
3"	6"	0° to 250° F	31060D206G4	82.50	61.88
3"	6"	50° to 550° F	31060D216G4	82.50	61.88

**All-Angle, Lower Back
Stem Connection,
3" and 5" Dials**



Model Selection Guide

Dial	Stem	Range	Catalog Number	Quantity 1-4	Quantity 5+
Type TI.32 and TI.52 Bimetallic Thermometer, 1/2" NPT All Angle Mount					
3"	2.5"	-40° to 120° F	32025D202G4	\$96.06	\$72.05
3"	2.5"	0° to 250° F	32025D206G4	96.06	72.05
3"	2.5"	50° to 550° F	32025D216G4	96.06	72.05
3"	4"	-40° to 120° F	32040D202G4	96.06	72.05
3"	4"	0° to 250° F	32040D206G4	96.06	72.05
3"	4"	50° to 550° F	32040D216G4	96.06	72.05
3"	6"	-40° to 120° F	32060D202G4	96.06	72.05
3"	6"	0° to 250° F	32060D206G4	96.06	72.05
3"	6"	50° to 550° F	32060D216G4	96.06	72.05
3"	9"	-40° to 120° F	32090D202G4	96.06	72.05
3"	9"	0° to 250° F	32090D206G4	96.06	72.05
3"	9"	50° to 550° F	32090D216G4	96.06	72.05
3"	12"	-40° to 120° F	32120D202G4	105.24	78.93
3"	12"	0° to 250° F	32120D206G4	105.24	78.93
3"	12"	50° to 550° F	32120D216G4	105.24	78.93
5"	2.5"	-40° to 120° F	52025D202G4	112.20	84.15
5"	2.5"	0° to 250° F	52025D206G4	112.20	84.15
5"	2.5"	50° to 550° F	52025D216G4	112.20	84.15
5"	4"	-40° to 120° F	52040D202G4	112.20	84.15
5"	4"	0° to 250° F	52040D206G4	112.20	84.15
5"	4"	50° to 550° F	52040D216G4	112.20	84.15
5"	6"	-40° to 120° F	52060D202G4	112.20	84.15
5"	6"	0° to 250° F	52060D206G4	112.20	84.15
5"	6"	50° to 550° F	52060D216G4	112.20	84.15
5"	9"	-40° to 120° F	52090D202G4	112.20	84.15
5"	9"	0° to 250° F	52090D206G4	112.20	84.15
5"	9"	50° to 550° F	52090D216G4	112.20	84.15
5"	12"	-40° to 120° F	52120D202G4	123.62	92.72
5"	12"	0° to 250° F	52120D206G4	123.62	92.72
5"	12"	50° to 550° F	52120D216G4	123.62	92.72

REOTEMP Remote Reading Thermometer

Specifications

Dial Sizes: 2", 2 1/2", 3 1/2", 4 1/2"

Accuracy: ±1 scale division

Dial: Aluminum; white finish, black markings; adjustable pointer

Movement: Brass, precision gearing

Bourdon Tube: Phosphor bronze

Window: Polycarbonate or glass

Case: Stainless steel on all front-flange and U-clamp models (45FR is aluminum); Back flange models in stainless (2"), black steel (3.5"); Valox® (4.5"); and Phenolic (4.5")

Bulb: 316 Stainless steel or nickel-plated copper



Search www.lesman.com for ReoTemp Vapor

Ordering Instructions

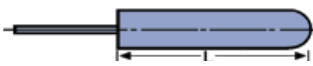
Make one selection from each table section below. A completed catalog number will look like this: VA-20FR-21-D-05-L2

Model Selection Guide

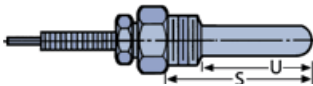
		Selection	Price	
Remote Reading Vapor-Actuated Thermometer		VA-		
Case Style and Size	Front Flange Panel Mount	2" Rear Connect 2.5" Rear Connect 3.5" Rear Connect 4.5" Low Rear Connect	-20FR-* \$53.13 -25FR-* 61.14 -35FR- 95.57 -45FR-* 112.78	
	U-Clamp Panel Mount	2.5" Rear Connect 3.5" Rear Connect	-25UR-* 62.33 -35UR- 108.63	
Dial Range	°F	°F/°C	°F F/°C	
	-20 to 120°F	-20 to 120°F/ -30 to 50°C	-32- -33- 0.00	
	0 to 180°F	0 to 180°F/ -20 to 80°C	-72- -73- 0.00	
	0 to 250°F	0 to 250°F/ 20 to 120°C	-56- -57- 0.00	
	20 to 220°F	20 to 220°F/ 0 to 105°C	-80- -81- 0.00	
	40 to 240°F	40 to 240°F/ 0 to 115°C	-50- -51- 0.00	
30 to 300°F	30 to 300°F/ 0 to 150°C	-60- -61- 0.00		
100 to 350°F	100 to 350°F/ 40 to 175°C	-68- -66- 0.00		
200 to 450°F	200 to 450°F/ 100 to 230°C	-70- -71- 0.00		
Capillary (100' Max.) and Bulb Material		Capillary Protection Selection	Price 5 Ft Length Price/ Add'l Ft.	
Nickel Plated Copper		—	A-___ 31.76 2.97	
Copper*		Bronze Braid	C-___ 33.24 3.71	
316 Stainless Steel		—	D-___ 84.88 7.66	
316 Stainless Steel		316 SS Armor	E-___ 96.76 13.36	
Process Connection	Connection Type		Material	
	None (Plain Bulb)			Brass 316 Stainless Steel Brass 316 Stainless Steel 316 Stainless Steel
	Compression Nut Only			
	Compression Nut Only			
	1/2" NPT Union			
	1/2" NPT Union			
1/2" NPT Sliding Union				
		-J1 0.00		
		-J2 8.48		
		-J3 22.26		
		-K2 14.34		
		-L2 31.91		
		-M2 164.97		

*Stainless Steel capillary required for use in temperatures above 300°F

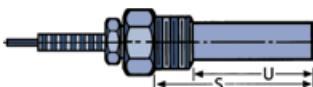
Bulb Configurations



Capillary Length	L	U	S
Plain Bulb (Upper Left)			
1 - 10 ft.	2.62	—	—
11 - 50 ft.	4.62	—	—
51 - 100 ft.	6.62	—	—



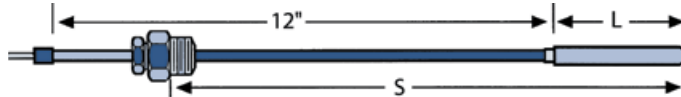
Union Connection (Middle Left)			
1 - 10 ft.	—	2.00	2.68
11 - 50 ft.	—	4.00	4.68
51 - 100 ft.	—	6.00	6.68



Thermowell (Lower Left)			
1 - 10 ft.	—	2.25	2.93
11 - 50 ft.	—	4.25	4.93
51 - 100 ft.	—	6.25	6.93



Bendable Extension (Bottom)			
1 - 10 ft.	2.25	—	3"—13.25"
11 - 50 ft.	4.25	—	5"—15.25"
51 - 100 ft.	6.25	—	7"—17.25"



Bimetal Dial Thermometers with Thermocouple/RTD Outputs

Features

- 3" or 5" back connected or all-angle configurations
- Stem lengths from 2.5" to 48"
- Single scale (°C or °F) or dual scale (°C/°F)
- Temperature ranges from -40°-120°F to 50°-550°F (and °C equivalents)
- Choice of glass, acrylic, Lexan, or shatter-proof window
- Thermocouple type J, K, E, or T, or 100Ω three-wire RTD output
- Standard, weatherproof, or explosion-proof head enclosures
- Choice 4-20 mA transmitter outputs or terminal block wiring
- Also available in solar digital thermometers

WIKA Twin-Temp thermometers combine the convenience, simplicity, and self-powered actuation of a bimetal dial thermometer with the data acquisition capabilities of a thermocouple or RTD electrical output. With standards traceable to NIST, the Twin-Temp offers simplified calibration for ISO9001 compliance and other statistical process control requirements.

It's the ideal temperature solution for applications that require quick and easy readability at the point of process, while still allowing for electrical data acquisition and digital panel remote readout. The Twin-Temp puts two temperature sensors to work at a single location.



Twin-Temp thermometers with thermocouple outputs start at \$435.99

Twin-Temp thermometers with RTD outputs start at \$399.47

Call Lesman for model selection assistance and current prices.

Field-Mount Digital Thermometers

Wahl DigiStem®

Features

- 1" continuous display, updates once per second
- Hosedown-proof, vibration tolerant
- 4-20 mA transmitter with local display, loop power optional
- 3A Sanitary standard 09-09 authorization; FM-Approved intrinsically safe
- Direct replacement for bimetal, mercury, or glass bulb and capillary thermometers!



Ordering Instructions

Make one selection from each table section below. A finished catalog number looks like this: DS_____

Model Selection Guide

Description		Catalog Number	Price Each
Battery-Powered Thermometer w/ Local Digital Display (Grounded Stem)			
0.0° to 199.9° F or -20° to 130° C, External Calibration		DSTA200	\$392.40
Scale	Display in °F Display in °C	F C	0.00 0.00
Process Connections	1/2" NPT	12	35.00
	1.5" Diam. 3A Sanitary, Welded	30	132.00
	2.5" Diam. 3A Sanitary, Welded	32	166.00
	3" Diam. 3A Sanitary, Welded	33	188.00
	Union Thermowell Fitting, 1-1/4" x 18	50	76.00
Stem Type	Cut-to-Length (User) (See Below)	1	10.00
	Cut-to-Length (Factory) (See Below)	2	16.00
	Brazed	3	25.00
	Welded (Included with 3A Connection)	4	26.00
	Spring-Loaded (Not with Code 50)	5	28.00
Stem Material	304 SS, Temperature Rating 400° F	1	4.00
	316 SS, Temperature Rating 400° F	2	6.00
	316 SS, Temperature Rating 900° F	3	11.00
Stem Tip Diameter	1/4" Standard (Immersion)	2	10.00
	3/8" (with Stem Adapter)	3	36.00
	1/2" (with Stem Adapter)	4	36.00
Stem Length	12" Stem Length Standard For Stem Lengths over 12"	12 --	0.00 1.00/in
Accessories	Wall-Mount Bracket	DSA3030	37.40
	NIST Calibration Test Report	DSTNIST	160.00

Specifications

Model	DST200	DST310
Range:	0.0° to 199.9° F -20.0° to 130.0° C	200° to 800° F 100° to 425° C
Display Resolution:	0.1° F or C	1° F or C 1°: 150° to 300° F (0.1° C)
Meter Accuracy Display and Loop at 75° F:	±0.3° F ±0.2° C	±2°: 200° to 600° F ±4°: elsewhere ±2° C
Temp. Coefficient:	0.02°/°F from 75°F	0.04°/°F from 75° F
Ambient Temp. Rated Operating Accuracy*:	20° to 130° F (-7° to 54° C) with alkaline batteries 20° to 158° F (-7° to 70° C) with lithium battery	
Material:	Meter case, fittings, stems: 300 series stainless. Window/molding: polycarbonate. Gasket: silicone.	
Battery Power/Life:	2 Alkaline C (18 months)	
FM Rating (Optional):	Intrinsically safe, Class I-III, Div. 1 and 2, Groups A-G	
Housing:	NEMA 4X. Dimensions: 5.3"W x 4.3"H x 2.7"D	

USG™ Digital Temperature Indicator



Specifications

Input: Type J or K thermocouple (not included).

Accuracy: ±1% full scale; *Cold Junction Compensation/Zero Drift:* 0.08°/°F or °C; *Resolution:* 1°F (1°C)

Calibration: Screw adjustment calibrates to within 1°F/°C at any point.

Operating Temperatures: -13° to 160°F (-25° to 72°C), varies by power supply.

Power Supply: *Battery-Powered:* 8 AA Alkaline batteries, up to 2 years of continuous operation. *External Power:* 6-28VDC (unregulated) at 0.2 to 5 mA

Display: 0.7" high, 3-1/2 digit LCD. Blanks out for low power, and displays negative numbers when T/C or wires are open.

Intrinsically Safe (FM Approved): *Battery-powered:* Intrinsically safe for Class I, II and III, Div. I, Groups A-E, and G hazardous locations using RayOVac 815, Duracell MN1500, Eveready E91, or Panasonic AM3. *External-powered:* Class I, II and III, Div. I, Groups A-E, G hazardous locations when installed to U.S. Gauge instructions.

Housing: NEMA 4X; 1/4 DIN; 302 SS; one-piece, Valox bezel and Buna-N gasket. Environmentally sealed with one-way valve for battery venting.

Size: 3.75" X 3.75" X 1.81" HWD

Connections: 1/2" NPT stainless steel half coupling welded to case

**Battery-operated!
No need to run
electricity!**

Model Selection Guide

Description		Catalog Number	Price Each
DT-8300 Digital Temperature Indicator, FM-Approved, Battery Powered			
Field Mount	Type K (-50° to 450°F)	DT-8311	\$465.63
	Type K (400° to 1500°F)	DT-8331	465.63
	Type J (-50° to 450°F)	DT-8351	465.63
Panel Mount	Type K (-50° to 450°F)	DT-8312	452.13
	Type J (-50° to 450°F)	DT-8352	374.62
FM-Approved "AA" Alkaline Batteries (8-Pack)		AA	6.99
DT-8300 Digital Temperature Indicator, External Power Supply (6-28 VDC)			
Panel Mount	Type K (-50° to 450°F)	DT-8316	544.65

Four-Position Temperature Recording Labels



- Easy, self-adhesive installation on most surfaces
- Heat-sensitive indicator positions turn permanently black when rated temperature points are reached
- Calibrated to $\pm 1\%$ NIST-traceable accuracy from 80° to 1100° F (27° to 593° C)
- High-visibility graphics (red, white, and black) ensure easy, quick, and positive readings, even in low-light conditions and small label sizes
- Continuous monitoring with no interruption due to power failure or battery exhaustion
- Provides a permanent record of overheating



Ordering Instructions

Select the label and the suffix denoting your temperature range. Follow the availability column down to be sure the label is available. A finished catalog number looks like this: 240-120F

Model Selection Guide

Description	Size and Range	Catalog Number	Availability	Price Box of 10	
STANDARD Temp-Plate 	0.75" x 1.75" 90°-500°F 32°-260°C	240-	↓	\$27.80	
MINI Temp-Plate 	0.38" x 0.82" 100°-500°F 37°-260°C	101-4-	↓	33.00	
MINI Temp-Plate Round 	0.56" Dia. 100°-350°F 37°-176°C	444-	↓	27.80	
°F Positions	Suffix	°C Positions	Suffix		
90-95-100-105	-091F	32-35-37-41	-033C	a	0.00
100-120-140-160	-101F	37-48-60-71	-038C	• • •	0.00
110-120-130-140	-110F	43-48-54-60	-043C	• • •	0.00
120-140-160-180	-120F	48-60-71-82	-048C	• • •	0.00
140-160-180-200	-140F	60-71-82-93	-060C	• • •	0.00
140-180-220-260	-141F	60-82-104-126	-061C	• • •	0.00
150-160-170-180	-150F	65-71-76-82	-065C	• • •	0.00
150-200-250-300	-151F	65-93-121-148	-066C	• • •	0.00
160-170-180-190	-161F	71-76-82-87	-072C	• • •	0.00
160-180-200-220	-160F	71-82-93-104	-071C	• • •	0.00
180-200-230-250	-180F	82-93-110-121	-082C	• • •	0.00
200-210-220-230	-200F	93-98-104-110	-093C	• • •	0.00
200-250-300-350	-202F	93-121-148-176	-095C	• • •	0.00
220-250-280-310	-220F	N/A		• • •	0.00
250-260-270-280	-250F	121-126-132-137	-121C	• • •	0.00
280-300-320-340	-280F	137-148-160-171	-137C	• • •	0.00
310-320-330-340	-310F	154-160-165-171	-154C	• • •	0.00
350-360-370-380	-350F	176-182-187-193	-176C	• • •	0.00
360-380-400-420	-360F	182-193-204-215	-182C	• • •	0.00
390-400-410-420	-390F	198-204-210-215	-198C	• • •	0.00
435-450-465-490	-435F	223-232-240-254	-223C	• • •	0.00

a Available in a minimum of five-box order only.

Instant Temperature Record

Temp-Plates® are self-adhesive temperature recording labels, available in °C, °F, or both, that can be read at a glance. Each Temp-Plate contains sealed heat-sensitive elements that change chemical structure when exposed to heat exceeding their calibrated temperatures. Each pearl-gray indicator turns permanently and irreversibly black in less than one second and with $\pm 1\%$ accuracy. With proper installation, Temp-Plates resist exposure to solvents, fuels, grease, oil, water, and steam.

Most Temp-Plates use a laminated heat-resistant plastic cover to encapsulate the temperature-sensitive chemical indicators and protect them from contamination from water, oil, and solvents. The bottom laminate of plastic film contains pressure-sensitive adhesive rated for elevated temperature installation. To install, remove the protective backing and apply to any clean, dry surface.

Temp-Plates are tested by placing test samples close to calibrated thermocouples installed on the surface of a special heavy-duty hot plate. A temperature rise rate not exceeding 1° C per minute is maintained, and the temperature point where the color change occurs is carefully observed and recorded. The calibration accuracy of Temp-Plates is traceable by lot number displayed on each container.



Looking for local digital indication of your process?

See our offering of Precision Digital temperature meters, starting on page 225.



PD743 Sabre T

4-digit display, 0.56" tall
No output options
AC or DC power models

Prices start at \$174.00
See page 227 for full details.



PD765 Trident

4-digit display, 0.56" tall
Relay, 4-20 mA outputs
24 VDC power supply options

Prices start at \$244.00
See page 226 for full details.



PD765 Trident X2

4-digit display, 1.2" tall
Relay, 4-20 mA outputs
24 VDC power supply options

Prices start at \$344.00
See page 226 for full details.



PD7000 ProVu

2-line, 6-digit display, 0.6 and 0.46" tall
Relay, 4-20 mA outputs

Prices start at \$334.00
See page 229 for full details.



PD8-765 ProtEX-MAX

4-digit display, 1.2" tall
Pt100 RTD or T/C Type J, K, T, E inputs, IP68, NEMA 4X enclosure

Prices start at \$0.85
See page 235 for full details.