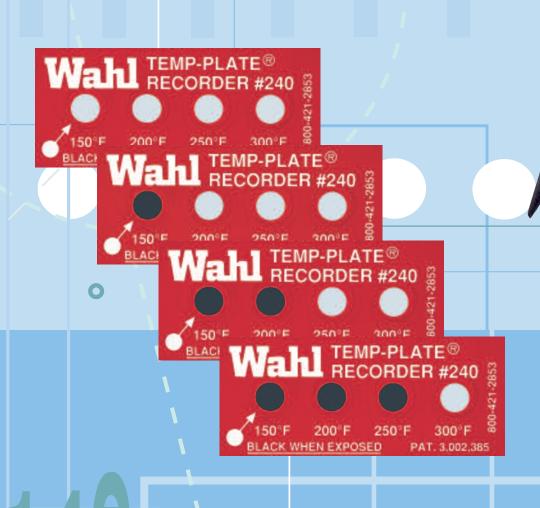


TEMP-PLATE®

Irreversible Temperature Recording Labels



www.palmerwahl.com



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Temp-Plate® Irreversible Temperature Recording Labels

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Wahl Temp Plate Temperature Recording Labels are:

- Easy, self-adhesive installation on most surfaces
- Heat-sensitive indicator "positions" turn permanently black when the rated temperature points are reached or exceeded
- Positions are carefully graduated to allow readily visible temperature history information
- Calibrated to ±1% NIST traceable accuracy from 90°F to 500°F (32°C to 260°C)
- Wide selection of temperature ranges (both °F and °C), sizes, and number of recording positions
- Provides a permanent record of overheating
- High-visibility graphics (red, white and black) ensure easy, quick, and positive readings, even in low-light conditions and small label sizes
- Each temperature position is clearly printed with the rated temperature
- Resistant, when properly installed, to solvents, fuels, grease, oil, water and steam
- Continuous monitoring with no interruption due to power failure or battery exhaustion

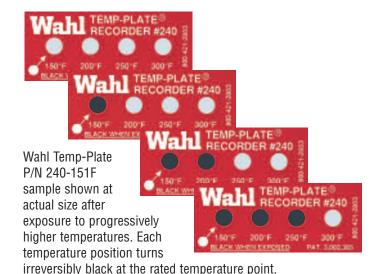
NEW! WB130 Wahl Breaker Overheat Indicators for Predictive Maintenance

Monitors Circuit Breaker & Electrical Equipment Temperature for Overheat see page 7 for details



• Continuously monitors electrical equipment. These economical non-reversible chemical change temperature labels instantly record an overheat occurrence and provide a permanent, NIST-traceable record.

Temp-Plates are used in thousands of applications where other surface temperature monitoring and recording methods are impractical, cost prohibitive, or inaccurate.





Easy to Use-Simply peel off backing of self adhesive Temp-Plates, and apply to any clean surface. Only .010" thick.







IMPORTANT NOTE: All labels 120°F/48°C and below are considered low temperature and are shipped with an ice pack to prevent the labels from turning in transit.

They are shipped by Fed Ex Express Overnight. These labels should be refrigerated upon receipt or they could turn before their intended use.

Introduction

Temp-Plate[®] Irreversible **Temperature Recording Labels**

Instant Temperature Record

Temp-Plates are self adhesive temperature recording labels that can be read at a glance. Rated temperatures are printed at the sensor window. Each Temp-Plate contains one to several sealed heat-sensitive elements which 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.

Where exacting temperature is critical, a Temp-Plate's miniaturized size permits installation on parts and in areas where other recording instruments prove impractical. Temp-Plates provide a continuous monitor for overheat that does not distort the temperature of the item being measured. Temp-Plates are easy to apply. For use during testing, Temp-Plates can be removed and entered into the test record log books. Available in a vast array of configurations and ranges. Nominal thickness is 0.01" (.3mm).

Temp-Plates are dedicated either °C, or °F, or both. Degree C scales accommodate international use laboratories and the electronic industry, while degree F scales accommodate U.S. industry and aviation.

Certification Services Available

Quality Assurance

Temp-Plates are manufactured with the same meticulous care as all other Wahl instruments. Temperature accuracy is verified by calibration tests on all lots of chemical elements used in the manufacture of Temp-Plates. Records of the calibration data are on permanent file at Wahl where the accuracy of test instrumentation is traceable to the U.S. National Institute of Standards and Technology.

Calibration Method

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.

Construction

Most Temp-Plates use a laminated construction consisting of a 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.



(800) 421-2853 • FAX (828) 658-0728 • www.palmerwahl.com

Testing Temp-Plate Accuracy -Surface calibration standard used for factory traceable lot numbers.







Applications

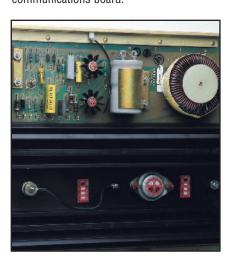
Versatile, easy-to-read Temp-Plate Labels help monitor and prevent overheating of valuable machinery, electrical parts, electronic components, perishable goods and other heat-sensitive materials and equipment. Temp-Plates are an economical, efficient tool for laboratory work, testing and quality control. Temp-Plates accurately:

Monitor overheating, wear and friction in machinery parts, such as bearings, gear boxes, transmission housings, radiators and heat exchangers.



WARRANTY

Irreversible Temp-Plates are a perfect "tattle-tale" of warranty abuse. Specify for overheat detection of computer installations, electrical hydraulic & mechanical equipment. Shown P/N 240 110-140°F on communications board.



DESIGN EVALUATION

Heat dissipation study. Shown P/N 101-4 (82-120°C) on heat sink. P/N 444 (80-125°C) on TO3 power transistor and P/N 442 (60-90°C) on T05 transistor.

Temp-Plate® Applications

Check overheating in electrical equipment, such as transformers, relays, generators, rectifiers, motor casings and bearings, underground power lines.

Audit overheated electronic parts, such as tubes, transformers, resistors, circuit boards and transistors.

Monitor commercial aircraft for preventive maintenance, such as engines, hydraulic systems, wheels, tires, brakes, heating systems, and avionics.



Guard against failures of hydraulic systems and high-pressure oil lines. Shown P/N 240 used to detect overheating in a line cou-



QUALITY CONTROL

Verify process temperatures. In flow solder process circuit boards to be preheated 76-87°C. P/N 430 shows 76°C actual. Another P/N 430 monitors I.C. temperature.



Protect computers and computer rooms, cargo compartments, blast tubes, rocket chamber walls, and bomb and ordnance storage areas.



ELECTRONIC CIRCUIT DESIGN

Measure operating circuits under actual conditions. Shown power supply circuit. P/N 101-4 on capacitor, P/N 442 on TO5 cases, P/N 311 and P/N 441 on stand-off resistors.



DESIGN CAPABILITY

Measure transformer core and insulation temperature compared to design rating. P/N 101-4.

See Important Note regarding shipping Temp-Plates on pg 9.



Four Position

Four Position Temp-Plate®

Wahl's versatile Four-Position Temp-Plates are the most popular configuration for general-purpose maintenance. Careful selection of temperature points from the tables

below will allow detection and recording of most overheat occurrences. Choose from STANDARD, MINI, or MICRO sizes.

How to Order Four Position Temp-Plates

GENERAL ORDERING INFORMATION

- All Temp-Plates are shown at actual size. For more information, see "Standard Specifications", catalog pg 9.
- Temp-Plates are priced, sold, and shipped in reclosable storage boxes of 10 labels of the same Part Number.
 Unit of measure is "box".
- Temp-Plate cover material is made of: Mylar (clear) for ranges 90/350°F (32/176°C) Kapton (amber) for 350/500°F (176/260°C)
- Specify Part Number by selecting the **Base Part No.** for **Standard**, **Mini**, or **Micro** size from the table below. Then add the **Range Code Suffix** to complete the Part Number.

Example: **240-150F** for a standard size with temperature positions at 150°, 160°, 170°, & 180°F



STANDARD Four-Position Base Part No. 240 .75" X 1.75" (19 x 44mm)



MINI Four-Position Base Part No. 101-4 .38" X .82" (10 x 21mm)



MINI Four-Position, Round Base Part No. 444 .56" Diameter (14mm)



MICRO Four-Position Base Part No. 441

.13" X .44" (3 x 11mm)



MICRO Four Position. Round

Base Part No. **442** .25" Diameter (6mm)

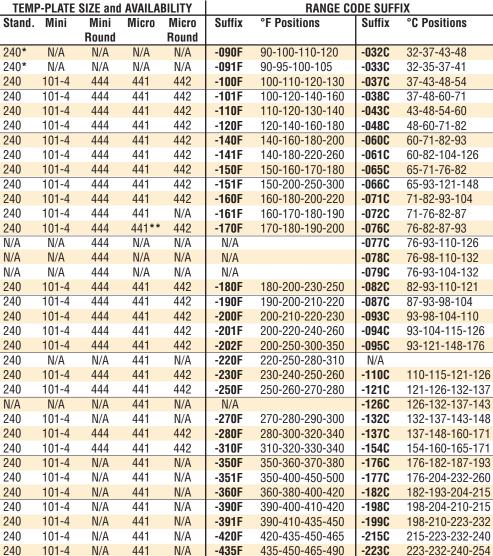
* Available in these ranges in a minimum of five-box order only. ** Not available in 170F.

Special Unmarked Security

MICRO Four-Position, Round

Base Part No. **440** .25" Diameter (6mm)

| | | | , | | , | | 000 .00 | |
|--|-----------|-------------|---------|-----------|------------|-------|-----------|-----|
| | 240 | 101-4 | N/A | 441 | N/A | -360F | 360-380-4 | 00- |
| | 240 | 101-4 | N/A | 441 | N/A | -390F | 390-400-4 | 10- |
| | 240 | 101-4 | N/A | 441 | N/A | -391F | 390-410-4 | 35- |
| | 240 | 101-4 | N/A | 441 | N/A | -420F | 420-435-4 | 50- |
| | 240 | 101-4 | N/A | 441 | N/A | -435F | 435-450-4 | 65- |
| Part No. 440 – Special Unmarked Security MICRO Four-Position, Round. Customer selection of any four recording temperature positions listed above. Note: no temperatures are printed on this mylar Temp-Plate. A legend supplied with each box provides identification of the selected points. Minimum is 100°F (37°C), Maximum is 350°F (176°C). Perfect for warranty work. Two box minimum order. Order as Part No. 440 and specify the four positions you require, or use the Range Code | | | | | | | | : |
| | Suffix if | you wish to | use the | points as | specified. | | | |











Three, Six, & Eight Position

Three, Six & Eight Position Temp-Plates®

When Wahl's selection of Four-Position Temp-Plates provide too few or too many recording positions, we can still offer an off-the-shelf solution to the problem. MINI-sized Temp-Plates in six and eight-positions and MICRO-sized three-position are available from stock.

How to Order Three, Six, & Eight Position Temp-Plates

GENERAL ORDERING INFORMATION

- All Temp-Plates are shown at actual size
- Temp-Plates are priced, sold, and shipped in reclosable storage boxes of 10 labels of the same Part Number. Unit of measure is "box".
- Temp-Plate cover material is made of: Mylar (clear) for ranges 90/350°F (32/176°C) Kapton (amber) for 350/500°F (176/260°C)
- Specify Part Number by selecting the **Base Part No.** from the tables below. Then add the Range Code Suffix to complete the Part Number. Example: 101-6-290F for a MINI-sized, six-position Temp-Plate with temperature points at 290°, 300°, 310°, 320°, 330° and 340°F.
- See "Standard Specifications", catalog page 9, for more information.



NIST Lot Traceability

Each box of Temp-Plates is provided with a NIST secondary standard accuracy traceable lot number. Permanent records at Wahl's factory will validate your quality assurance programs.



MINI Eight-Position Base Part No. 101-8 .38" X 1.5" $(10 \times 38 \text{mm})$

RANGE CODE SUFFIX FOR EIGHT POSITION. Base Part No. 101-8

| Suffix | °F Positions | Suffix | °C Positions |
|--------|---------------------------------|--------|---------------------------------|
| -110F | 110-120-130-140-150-160-170-180 | -043C | 43-48-54-60-65-71-76-82 |
| -190F | 190-200-210-220-230-240-250-260 | -087C | 87-93-98-104-110-115-121-126 |
| -270F | 270-280-290-300-310-320-330-340 | -132C | 132-137-143-148-154-160-165-171 |
| -350F | 350-370-390-410-435-450-465-500 | -176C | 176-187-198-210-223-232-240-260 |

RANGE CODE SUFFIX FOR SIX-POSITION, Base Part No. 101-6



MINI Six-Position Base Part No. 101-6 .38" X 1.16" $(10 \times 29 \text{mm})$

| Suffix | °F Positions | Suffix | °C Positions |
|--------|-------------------------|--------|-------------------------|
| -110F | 110-120-130-140-150-160 | -043C | 43-48-54-60-65-71 |
| -170F | 170-180-190-200-210-220 | -076C | 76-82-87-93-98-104 |
| -230F | 230-240-250-260-270-280 | -110C | 110-115-121-126-132-137 |
| -290F | 290-300-310-320-330-340 | -143C | 143-148-154-160-165-171 |
| -350F | 350-360-370-380-390-400 | -176C | 176-182-187-193-198-204 |
| -420F | 420-435-450-465-480-500 | -215C | 215-223-232-240-248-260 |

RANGE CODE SUFFIX FOR THREE-POSITION, Base Part No. 430



MICRO Three-Position Base Part No. 430 Available in Mylar only .13" X .30" $(3 \times 8mm)$

| Suffix | °C Positions | Suffix | °C Positions | Suffix | °F Positions | |
|--------|--------------|--------|--------------|--------|--------------|--|
| -043C | 43-48-54 | -110C | 110-115-121 | -180F | 180-190-200F | |
| -060C | 60-65-71 | -121C | 121-126-132 | -181F | 180-190-210F | |
| -076C | 76-82-87 | -126C | 126-132-137 | -182F | 180-200-220F | |
| -082C | 82-93-104 | -143C | 143-148-154 | | | |
| -093C | 93-98-104 | -160C | 160-165-171 | 1 | | |







See Important Note regarding shipping Temp-Plates on pg 9.

104-115-121

-104C



Single Position Temp-Plates®

When the recorded temperature reached is a question of one point only, or space is at a minimum, Wahl Single-Position Temp-Plates provide history at a glance. Easy-to-read recording position is simply either "off" (light gray) or "on" (black) at one temperature point only. Perfect for warranties and critical process points.

How to Order Single Position Temp-Plates

GENERAL ORDERING INFORMATION

- All Temp-Plates are shown at actual size.
- Temp-Plates are priced, sold, and shipped in reclosable storage boxes with labels of the same Part Number.

 414 comes in boxes of 20 labels. 210 in boxes of 10 labels. Unit of measure is "box".
- Temp-Plate cover material is made of: Mylar (clear) for ranges 100/350°F (38/176°C) Kapton (amber) above 350°F (176°C)
- Specify Part Number by selecting the Base Part No. from the tables below.
 Then add the Range Code Suffix to complete the Part Number.
 Example: 414-200F-093C for a temperature point of 200°F and 93°C.
- See "Standard Specifications" catalog page 9, for more information.

RANGE CODE SUFFIX FOR SINGLE POSITION, BASE PART NO. 414



Single-Position, Round
Base Part No. 414
.56" Diameter
(14mm)
Note: Printed with both
°F and °C

| Suffix | °F & °C Position | Suffix | °F & °C Position | Suffix | °F & °C Position |
|------------|------------------|------------|------------------|------------|------------------|
| NA | 95°F and 35°C | -210F-099C | 210°F and 99°C | -350F-177C | 350°F and 177°C |
| -100F-038C | 100°F and 38°C | -220F-104C | 220°F and 104°C | -360F-182C | 360°F and 182°C |
| -105F-041C | 105°F and 41°C | -230F-110C | 230°F and 110°C | -370F-188C | 370°F and 188°C |
| -110F-043C | 110°F and 43°C | -240F-116C | 240°F and 116°C | -380F-193C | 380°F and 193°C |
| -115F-046C | 115°F and 46°C | -250F-121C | 250°F and 121°C | -390F-199C | 390°F and 199°C |
| -120F-049C | 120°F and 49°C | -260F-127C | 260°F and 126°C | -400F-204C | 400°F and 204°C |
| -130F-054C | 130°F and 54°C | -270F-132C | 270°F and 132°C | -410F-210C | 410°F and 210°C |
| -140F-060C | 140°F and 60°C | -280F-138C | 280°F and 137°C | -420F-216C | 420°F and 216°C |
| -150F-066C | 150°F and 66°C | -290F-143C | 290°F and 143°C | -435F-224F | 435°F and 224°C |
| -160F-071C | 160°F and 71°C | -300F-149C | 300°F and 149°C | -450F-232C | 450°F and 232°C |
| -170F-077C | 170°F and 77°C | -310F-154C | 310°F and 154°C | -465F-241C | 465°F and 241°C |
| -180F-082C | 180°F and 82°C | -320F-160C | 320°F and 160°C | -480F-249C | 480°F and 249°C |
| -190F-088C | 190°F and 88°C | -330F-166C | 330°F and 166°C | -490F-254C | 490°F and 254°C |
| -200F-093C | 200°F and 93°C | -340F-171C | 340°F and 171°C | -500F-260C | 500°F and 260°C |



Single-Position Part No. WB130 0.470" x 0.470" (11.93 x 11.93mm)

Printed: 130°F and 54°C

NEW! Wahl Breaker Overheat Indicators for Predictive Maintenance

Continuously Monitors Circuit Breaker & Electrical Equipment Temperature with no interruption due to power failure or battery exhaustion.

Provides a permanent record of overheating.

Package of 30 includes: 1 Self-Adhesive Panel Inspection Log



Single-Position
Base Part No. 210
1" x 0.75" (25 x 19mm)
Note: Printed either
°F or °C

STANDARD RANGE CODE SUFFIX* FOR SINGLE POSITION, BASE PART NO. 210

| Suffix | °C Position | Suffix | °F Position |
|--------|-------------|--------|-------------|
| -043C | 43°C | -095F | 95°F |
| -054C | 54°C | -220F | 220°F |
| -071C | 71°C | -270F | 270°F |

*Custom Temperature Points available for Part No. 210.
Any other temperature point from 90°F to 350°F or 32°C to 176°C may be ordered.

Order by using base part number 210 with suffix identifying the desired temperature point in °F or °C. *Example: 210-220F.*









IC Batch & Vacuum Chamber

IC Batch/Vacuum Chamber Temp-Plates®

A specialized Four-Position Temp-Plate for monitoring overheat conditions directly on the surface of integrated circuits during wafer fabrication. Designed to withstand exposure to high heat, vacuums and corrosive gases when used in the demanding semiconductor industry.

SPECIAL APPLICATION FOUR POSITION TEMP-PLATE ORDERING INFORMATION

• Temp-Plates are priced, sold and shipped in reclosable storage boxes of 10 labels of the same Part Number. Unit of measure is "box".

Four-Position IC Batch/Vacuum TEMP-PLATE ORDERING INFORMATION:

- Temp-Plate cover material is Kapton only, reverse printed for vacuum chamber use.
- Specify Part Number by adding the **Range Code Suffix** to the **Base Part No.** *Example:* 443-198C for a Four-Position round Temp-Plate with temperature points of 198, 204°, 210° and 215°C. See "Standard Specifications", catalog page 9, for more information.

RANGE CODE SUFFIX FOR MINI, FOUR-POSITION, ROUND IC BATCH & VACUUM CHAMBER, Base Part No. 443



MINI Four-Position. Round IC Batch and Vacuum Chamber Base Part No. 443 .56" Diameter (14mm)

| Suffix | °C Position | Suffix | °C Position | Suffix | °C Position |
|--------|---------------|--------|-----------------|--------|-----------------|
| -037C | 37-43-48-54 | -076C | 76-82-87-93 | -154C | 154-160-165-171 |
| -038C | 37-48-60-71 | -082C | 82-93-110-121 | -176C | 176-182-187-193 |
| -043C | 43-48-54-60 | -087C | 87-93-98-104 | -177C | 176-204-232-260 |
| -048C | 48-60-71-82 | -093C | 93-98-104-110 | -182C | 182-193-204-215 |
| -060C | 60-71-82-93 | -094C | 93-104-115-126 | -198C | 198-204-210-215 |
| -061C | 60-82-104-126 | -095C | 93-121-148-176 | -199C | 198-210-223-232 |
| -065C | 65-71-76-82 | -110C | 110-115-121-126 | -215C | 215-223-232-240 |
| -066C | 65-93-121-148 | -121C | 121-126-132-137 | -223C | 223-232-240-254 |
| -071C | 71-82-93-104 | -132C | 132-137-143-148 | | |
| -072C | 71-76-82-87 | -137C | 137-148-160-171 | | |

RANGE CODE SUFFIX FOR MINI FOUR-POSITION IC BATCH & VACUUM CHAMBER. Base Part No. 101-4



MINI Four-Position IC Batch and Vacuum Chamber Base Part No. 101-4 .38" X .82" (10 x 21mm)

| Suffix | °C Position | Suffix | °C Position | Suffix | °C Position |
|--------|---------------|--------|-----------------|--------|-----------------|
| -037VC | 37-43-48-54 | -072VC | 71-76-82-87 | -132VC | 132-137-143-148 |
| -038VC | 37-48-60-71 | -076VC | 76-82-87-93 | -137VC | 137-148-160-171 |
| -043VC | 43-48-54-60 | -082VC | 82-93-110-121 | -154VC | 154-160-165-171 |
| -048VC | 48-60-71-82 | -087VC | 87-93-98-104 | -176VC | 176-182-187-193 |
| -060VC | 60-71-82-93 | -093VC | 93-98-104-110 | -177VC | 176-204-232-260 |
| -061VC | 60-82-104-126 | -094VC | 93-104-115-126 | -198VC | 198-204-210-215 |
| -065VC | 65-71-76-82 | -095VC | 93-121-148-176 | -199VC | 198-210-223-232 |
| -066VC | 65-93-121-148 | -110VC | 110-115-121-126 | -223VC | 223-232-240-254 |
| -071VC | 71-82-93-104 | -121VC | 121-126-132-137 | | |

RANGE CODE SUFFIX FOR MICRO, FOUR-POSITION, IC BATCH & VACUUM CHAMBER, Base Part No. 450



Micro Four-Position IC Batch and Vacuum Chamber Base Part No. 450

0.2" X 0.65" (5 x 16.5mm)

| Suffix | °C Position | Suffix | °C Position |
|--------|-----------------|--------|-----------------|
| -043VC | 43-48-54-60 | -115VC | 115-121-126-132 |
| -065VC | 65-71-76-82 | -132VC | 132-137-143-148 |
| -087VC | 87-93-98-104 | -154VC | 154-160-165-171 |
| -110VC | 110-115-121-126 | -176VC | 176-182-187-193 |

Note: 450 Label is shown larger than actual size, and is packaged in resealable plastic bags.







See Important Note regarding shipping Temp-Plates on pg 9.

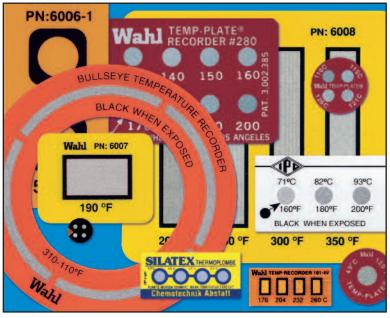


Special Application and Custom Designed Temp-Plates®

Special Application **Custom Design**

In addition to the wide selection of off-theshelf Temp-Plates, Wahl's engineering, graphics design and manufacturing experience invites OHM and end-users to solve their unique temperature recording requirements.

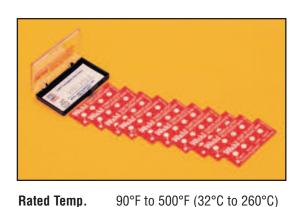
We have successfully created custom and made-to-order Temp-Plates in partnership with a wide variety of manufacturing, design, maintenance and research industry leaders. including commercial and aviation, aerospace, energy, medical, pharmaceutical, and the computer industry.



Made-to-Order Temp-Plates

Custom Temp-Plates produced to customer's specifications. Custom size, shape, range, positions, color, and logo imprint, subject to factory approval.

TEMP-PLATE STANDARD SPECIFICATIONS



Shelf Life

Traceability

Response Time

Less than 1 second when measured in water.

Lots are traceable to codes found in the back of each box. The accuracy calibration records on file at Wahl Instruments are

traceable to NIST.

Mounting Pressure-sensitive adhesive backing rated to

500°F on smooth, clean, dry surfaces.

Thickness 0.013 inch (0.330mm)

Color change at 1% of indicated value, e.g.

±2.5°F at 250°F or ±1.2°C at 121°C.

Irreversible change from pearl gray to black at

rated temperatures.

Two years minimum when Temp-Plate labels are stored in their original container at an ambient temperature of 60° to 80°F and a relative humidity of 50%.

One year on reversible Temp-Plate Labels

when stored away from UV light.

IMPORTANT NOTE: All labels 120°F/48°C and below are considered low temperature and are shipped with an ice pack to prevent the labels from turning in transit. They are shipped by Fed Ex Express Overnight. These labels should be refrigerated upon receipt or they could turn before their intended use.









Accuracy

Color Change

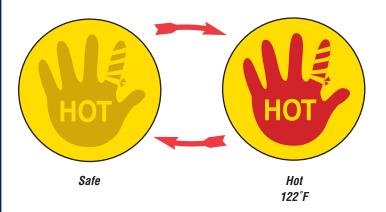
Hot Hands and Temp-Spy

Hot HandsTM Reversible Temperature **Monitors**

Industrial safety labels prevent skin burns

Wahl's industrial safety warning labels protect against skin burns when affixed to potentially hazardous surfaces.

When the self-adhesive bright yellow 1.5" (38mm) diameter reversible temperature indicator reaches its calibrated temperature of about 122°F (50°C), which is skin burn temperature, A BRIGHT RED HAND APPEARS WHICH SAYS "HOT". When the temperature cools to normal, the verbal message will disappear and change back to its original solid non-indicating position.



APPLICATIONS

- Indicates when machinery is
- "ON" or "OFF"
- Hot Ovens
- Motors
- Appliances

- Hot Plates
- Transformers
- Pipes
- Radiators
- Heaters

HOT HANDS ORDERING INFORMATION

- · Hot Hands are shown at actual size
- · Hot Hands are priced, sold, and shipped in packages of 50 labels.

Part No. 11895-1 Temperature Warning Safety Label

126°C

Label Indicates at: 122°F (50°C)

Label Withstands Maximum Temperature of: 194°F (90°C)

Temp-Spy® Series

Low Cost Temperature Labels

Temp-Spy is an all plastic, self adhesive temperature recording label that is non-reversible. It is designed and produced in Wahl's US factory to meet the needs of high volume users who need a quality product, low cost, and rapid delivery.

Highly Visible, Easy to Read

A yellow format is easily seen at a distance, pinpointing hot spots Model TSK3 covers a narrow range of approximately 20°C with 3 indicators.

- Electric Motors
- Bearings
- Electronic Modules
- Electric Power Connections
- Relays

APPLICATIONS Steam Traps RANGE CODE SUFFIX Base Part No. TS3

137°C

BLACK WHEN EXPOSED

TS3 Base Part No. TS3

.75" X 1.5" (19 x 38mm)

TEMP-SPY®

148°C

| Suffix | °C Position |
|--------|-------------|
| -43C | 43-54-65 |
| -60C | 60-71-82 |
| -93C | 93-104-115 |
| -126C | 126-137-148 |
| -160C | 160-171-182 |
| -193C | 193-210-223 |
| -232C | 232-240-254 |

See Important Note regarding shipping Temp-Plates on pg 9.

Reversible Temp-Plates®

Reversible Temp-Plate

Reversible Temp-Plate Temperature Labels are used for applications demanding digital readings of current ambient temperatures. Offered in a wide range of sizes, temperature spans and increments, these versatile and economical thermometers, like Irreversible Temp-Plates, are suitable for thousands of uses.

- Self-adhesive back sticks securely to almost any flat surface - glass, metal, ceramics, plastics or fabrics.
- The indicating digit becomes easily visible as temperature increases. Digits change from black (invisible), through the color spectrum, then back to black.
- Compact size works in small areas where space is limited. Perfect for refrigerated transport, product showcases and storage rooms.
- Ranges from -22°F (-30°C) up to 248°F (120°C) in 2°,9° and 18°F (1°,2°, 5°, and 10°C) increments.
- Reversible Temp-Plates have a shelf life of 1 year when stored away from UV light
- · Rugged, unbreakable construction without glass or plastic parts to shatter.
- Economical method of monitoring multiple temperature points within plant or warehouse environment.

REVERSIBLE TEMP-PLATE ORDERING INFORMATION

| SEVEN-POSITION DUAL SCALE RTF-P | | | | | | |
|---------------------------------|------------------------------|-----------|----|--|--|--|
| Part No. Range Increments | | | | | | |
| 7-30/0C&F | -30° to 0°C / -22° to 32°F | 5°C/9°F | 10 | | | |
| 70/30C&F | 0° to 30°C / 32° to 86°F | 5°C/9°F | 10 | | | |
| 730/60C&F | 30° to 60°C / 86° to 140°F | 5°C/9°F | NA | | | |
| 760/90C&F | 60° to 90°C / 140° to 194°F | 5°C/9°F | NA | | | |
| 730/90C&F | 30° to 90°C /86° to 194°F | 10°C/18°F | NA | | | |
| 790/120C&F | 90° to 120°C / 194° to 248°F | 5°C/9°F | NA | | | |

NARROW, SIXTEEN-POSITION DUAL SCALE RTF-P

| Part No. | Range | Increments | Qty. |
|--------------|----------------------------|------------|------|
| N1658/88F&C | 58° to 88°F / 14° to 31°C | 2°F/2°C | NA |
| N1626/56F&C | 26° to 56°F / -3° to 13°C | 2°F/1°C | 10 |
| N1614/31C&F | 14° to 31°C / 58° to 88°F | 1°C/2°F | NA |
| N16-3/13C&F | -3° to 13°C / 26° to 56°F | 1°C/2°F | 10 |
| N1690/120F&C | 90° to 120°F / 32° to 49°C | 2°F/1°C | 10 |
| N1632/49C&F | 32° to 49°C / 90° to 120°F | 1°C/2°F | NA |

WIDE, SIXTEEN-POSITION DUAL SCALE RTF-P

| Part No. | Range | Increments | Qty. |
|-------------|---------------------------|------------|------|
| W1660/90F&C | 60° to 90°F / 16° to 32°C | 2°F/1°C | 100 |

WIDE, SIXTEEN-POSITION CELSIUS SCALE RTF-P

| Part No. | Range | Increments | Qty. |
|------------|--------------|------------|------|
| W1610/40C | 10° to 40°C | 2°C | 100 |
| W160/75C | 0° to 75°C | 5°C | NA |
| W1625/100C | 25° to 100°C | 5°C | NA |
| W1618/33C | 18° to 33°C | 1°C | NA |

REFRIGERATOR, DUAL SCALE RTF-P

| Part No. | Range | Increments | Qty. |
|-----------|--------------------------|------------|------|
| R32/54F&C | 32° to 54°F / 0° to 12°C | 4°F/2°C | NA |

FREEZER, DUAL SCALE RTF-P

| Part No. | Range | Increments | Qty. |
|------------|-----------------------------|------------|------|
| F-10/25F&C | -10° to 25°F / -23° to -4°C | 5°F/3°C | NA |



10/10



All RTF-P Are Shown Actual Size



Seven-Position Dual Scale 1.75" X .50" (45 X 13mm)

| °C |
|----|
| 40 |
| 38 |
| 36 |
| 34 |
| 32 |
| 30 |
| 28 |
| 26 |
| 24 |
| 22 |
| 20 |
| 18 |
| 16 |
| 14 |
| 12 |
| 10 |

Wide Sixteen-Position **Dual Scale and** Celsius Scale RTF-P 0.75" X 5.187" (19 X 130mm)



Refrigerator Dual Scale RTF-P 0.75" X 5.187" (19 X 130mm)

60 16

58 14

Freezer, Dual Scale RTF-P 0.75" X 5.187" (19 X 130mm)







The World's Finest Manufacturers of Industrial Temperature, Pressure and Humidity Instrumentation



- Industrial Glass Thermometers
- · Bimetal Dial Thermometers
- Pressure Gauges and Accessories
- Temperature and Pressure Recorders
- Liquid and Mercury Filled Dial, Direct Drive, Dial Thermometer Systems
- Thermowells and Fittings
- ASTM and Laboratory Thermometers
- Process Thermometers
- Sanitary Thermometers and Gauges
- . Thermometer Contract Manufacturing



- Heat Spy® Imager Thermal Imaging Camera
- Heat Spy® Hand-Held Infrared Thermometers
- Heat Spy Monitor® Fixed Infrared Sensors
- Heat Prober® RTD & TC Meter/Probe Thermometers
- Digi-Stem® Digital Thermometers and Transmitters
- Temperature Transmitters and Switches
- Temp-Plate® Temperature Recording Labels
- In situ RTD and Thermocouple Probes and Connection Systems
- Thermistor Probes and Connection Systems
- Specialty Probes for OEM applications
- Probe Extension Cables and Connectors



- Portable Electronic Temperature and Process Calibrators
- Bench Top Electronic Temperature and Process Calibrators
- Bench Top Precision Thermometers
- Ohmmeters/Mega-Ohmmeters
- Cable Testers



- Dataloggers for Temperature, Humidity, Barometric Pressure, CO₂, and Meteorological Conditions
- Modular Data Logger for Measuring, Logging and Control
- Hand-Held RTD, Dual Thermocouple, and Combination Thermocouple and RTD Meters
- Hand-Held Pressure and Differential Pressure Meters, Temperature, Humidity, and Dew Point Meters
- Electronic Weather Stations

Palmer Wahl Warranty

Manufacturer warrants all products listed in this catalog to be free from defects in material or workmanship under normal use and service. The Manufacturer agrees to repair or replace any product which upon examination is revealed to have been defective due to faulty workmanship or material if returned to our factory, transportation charges prepaid, within the product specific warranty period stated in the catalog by the manufacturer. This warranty is in lieu of all other warranties, expressed or implied and of all obligations or liabilities on its part for damages including but not limited to consequential damages, following the use or misuse of instruments sold by the Manufacturer. No agent is authorized to assume for Manufacturer any liability except as set forth above.