

Mechanical Temperature

Process & Industrial Measurement



Part of your business

Bimetal / Twin-Temp

Process Grade Bimetal Thermometers

TI.30, TI.50, TI.31, TI.51, TI.32, TI.52

WIKA's process grade bimetal thermometers are suitable for nearly every direct-reading thermometer application. Their durable construction and finish ensure reliable readings and long-lasting service. The superior quality of the WIKA Type 30, 31, 32, 50, 51 and 52 is reflected in the 7-year warranty.

Size: 3", 5"
 Case & stem: 304SS standard, 316SS wetted parts (stem) optional
 Stem lengths: 2½" to 72" (consult factory for longer stems)
 Accuracy: +/-1.0% of span ASME B40.3 Grade A
 Scale: dual °F/°C; single °F or °C
 Ranges: -100°F (-70°C) to 1000°F (500°C)



TI.30



TI.50



TI.31



TI.51



TI.32



TI.52

Twin-Temp Thermometers

TT.30, TT.32, TT.50, TT.52, TT.80, TT.82

WIKA's unique Twin-Temp thermometers combine the accuracy, reliability and easy-to-read dial of a bimetal thermometer with the precision readout and data acquisition of a thermocouple or RTD sensor. The Twin-Temp provides two temperatures from one insertion point.

Size: 3", 5" (5" not available on solar digital)
 Case & stem: 304SS standard, 316SS wetted parts (stem) optional
 Stem lengths: 2½" to 48" configurable with thermocouple, 4" to 48" configurable with RTD and 2½" to 24" configurable, solar digital
 Accuracy: +/- 1.0% of span for each sensor
 Scale: dual °F/°C; single °F or °C
 Ranges: -100°F (-70°C) to 550°F (260°C)
 Thermocouple: type K grounded thermocouple standard types J, E and T available
 RTD: 100 Ohm thin film platinum DIN curve (.00385 Ohm/Ohm/°C)
 Options: Dampened Movement, 4-20 mA transmitter and terminal block



TT.82



TT.52

Bimetal / Solar Powered / Industrial Thin Stem / Thermowells

Industrial Grade Bimetal Thermometers

TI.20, TI.33, TI.34, TI.53, TI.54

WIKA's industrial grade bimetal thermometers are ideal for a weather resistant application or where tamper-proof thermometers are recommended. The WIKA Type 20, 33, 34, 53 and 54 are warranted for one year.

Size: 2", 3", 5"
 Case & stem: 304 stainless steel
 Stem lengths: 2½" to 24"
 Accuracy: +/- 1.0% of span
 ASME B40.3 Grade A
 Scale: dual °F/°C; single °F or °C
 Ranges: -100°F (-70°C) to 1000°F (500°C)



TI.20



TI.34

Industrial Thin Stem Thermometers

TI.T17, TI.T20

WIKA's laboratory/thin stem thermometers deliver fast, extremely accurate readings. These thermometers are designed for laboratory and OEM applications.

Size: 1¾", 2"
 Case & stem: 304 stainless steel
 Stem lengths: 5", 8", 12", 18"
 Window: flat instrument glass
 Accuracy: +/- 1.0% full scale value
 Scale: dual °F/°C; single °F or °C
 Ranges: -100°F (-70°C) to 750°F (300°C)
 External reset: externally adjustable on plain connection
 Options: stem lengths, threaded connections, scales and dial markings, Lexan® window, beaker clip, stem tip



TI.T20

Thermowells

TW.TH, TW.SW, TW.FL, TW.VS, TW.SC

Thermowells for temperature instruments are recommended for all processes where measurement of a corrosive medium or media is under pressure or velocity. WIKA thermowells are available in a complete selection of base materials. They are also available in a selection of shields and coatings, as well as threaded, flanged, welded and sanitary connections. WIKA thermowells are offered in .260" and .385" bores. WIKA sanitary thermowells meet the criteria for 3A sanitary standard 74-03 requirements. WIKA also manufactures thermowell conversion kits to adapt different thermowells to new types of thermometers.



Process connections: threaded, flanged, welded, sanitary
 Instrument connection: ½" NPSM standard
 Shank configurations: stepped, straight, tapered
 Bore diameter: .260", .385"
 Materials: brass, AISI 304, AISI 316 (other materials available)
 Surface finish: brass: 60-100Ra; AISI 304 and AISI 316: 16-32Ra; sanitary AISI 304 & 316: 16-32Ra

Solar Powered Digital Thermometer

TI.80, TI.82

WIKA's solar powered digital thermometers are ideal for pilot plants, R&D and industrial applications.

Type: TI.80 - back connected
 TI.82- adjustable angle
 Size: 3"
 Case & stem: 304 stainless steel
 Stem lengths: 1" to 36"
 Window: glass, acrylic
 Accuracy: +/- 1% of scale
 Range: -50/300°F or -50/100°C
 Sensor: ceramic thermistor requiring 35 lux to operate the 3-volt solar cell



TI.80



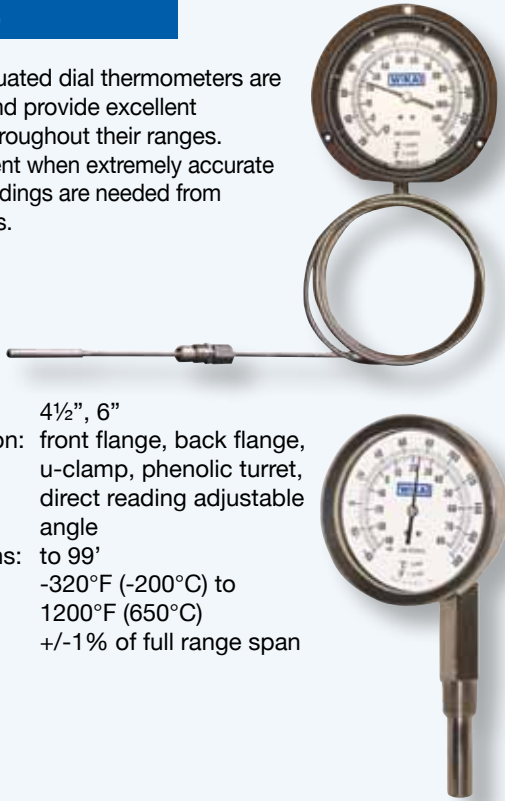
TI.82

Gas & Vapor Actuated / Solar Industrial / Glass

Gas Actuated Thermometers

TI.R45, TI.R60

WIKA's gas actuated dial thermometers are easy-to-read and provide excellent performance throughout their ranges. They are excellent when extremely accurate temperature readings are needed from remote locations.



Size: 4½", 6"
Case connection: front flange, back flange, u-clamp, phenolic turret, direct reading adjustable angle
Capillary lengths: to 99'
Ranges: -320°F (-200°C) to 1200°F (650°C)
Accuracy: +/-1% of full range span

Solar Industrial Thermometer

TI.D01

WIKA's solar industrial thermometer is an excellent alternative to industrial-glass thermometers. It offers fast, accurate and easy-to-read temperature indications. Retro-fit design is a drop-in replacement for glass thermometers.

Range: -50/300°F (-50/150°C)
Accuracy: 1% of reading 1°
Sensor: glass passivated thermistor
Lux Rating: 10 lux (one foot candle)



Vapor Actuated Thermometers

TI.V20, TI.V25, TI.V35, TI.V45

Where critical measurement is within a limited range, a WIKA vapor actuated thermometer is ideal. Rugged and reliable, these instruments are well-suited for refrigeration, drying ovens and plating applications.



Size: 2", 2½", 3½", 4½"
Connection: plain, threaded union, thermowell
Capillary lengths: up to 99'
Ranges: -40°F(-40°C) to 350°F(176°C)
Accuracy: +/-1% scale division, full scale
Options: copper bulb, capillary and braided armor; or stainless steel bulb, capillary and stainless steel interlocking armor available

Industrial Glass Thermometer

TI.701, TI.901, TI.61102, TI.61104, TI.62102, TI.62104

WIKA's industrial glass thermometers offer easy-to-read temperature measurement in tough applications. Their molded housings offer excellent rigidity and impact resistance, and the glass tube is mounted to resist shock. The blue spirit fill provides mercury-free temperature measurement.

Scale: 7", 9"
adjustable locking case and stem
Ranges: -40°F to 550°F
Accuracy: +/-1% of full range span
Fill: blue spirit fill (non-mercury)



TI.61102

Pocket Test / Temperature Switch / Surface Mount

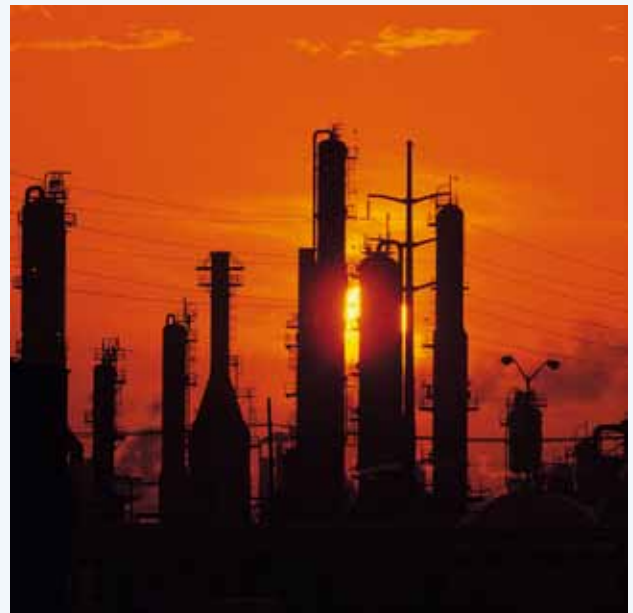
Pocket Test Bimetal Thermometer

TI.1005

WIKA's pocket test bimetal thermometer provides quick, accurate readings and is the instrument of choice for the food service industry. The 1" dial is easy to read. Stem length is 5". Thermometer includes pocket case which can be used to hold the stem.



Accuracy: +/- 1% of full scale
Case: stainless steel
Stem: .142" diameter
Length: 5"
Range: -40/160°F; 0/220°F; 50/550°F



Temperature Switch Gauge

TI.TSG60

WIKA's temperature switch gauge offers a combination of industrial strength performance with unmatched precision. The TI.TSG60 has a rugged stainless steel case, which holds up to four single-pole, double-throw 10-amp switches for a variety of switching actions.



Size: 6¼"
Case: 304 stainless steel; bottom connected back flange
Window: Lexan®
Switch rating: 10 amp @ 125/250 VAC, non-inductive; 5 amp @ 120 VAC, inductive; ½" amp @ 125 VDC, noninductive; ¼" amp @ 250 VDC, non-inductive
Switch connection: Amphenol connector for up to 4 switches
Switch differential: equal to 2-3% of span
Connection: ¾" x 3" 316 stainless steel bulb with 12" or 18" bendable extension and ½" NPT one-time compression fitting
Range: 50% up to 500°F, except 10% on 0-120°C and 0-250°F

Surface Mount Bimetal Thermometer

TI.ST

WIKA's dual-magnet surface mount thermometers are problem solvers. The TI.ST is an inexpensive, easy-to-use, accurate surface mounting thermometer, which attaches to any ferrous metal surface giving unlimited localized temperature indication. The specially designed bimetal sensing element and housing provide quick readings. These 2" dial thermometers feature steel cases, glass windows and polished aluminum dials with very legible graduations. WIKA's dual-magnet mount surface thermometers are the ideal choice for ovens, boilers, process lines, motors, generators or anywhere surface temperature is to be measured, whether temporarily or permanently.



Size: 2"
Depth: ½"
Accuracy: +/- 5% of full scale value
Ranges: 0-250°F; 0-500°F; -20/250°C; -70/70°C



For over 60 years, WIKA Instrument Corporation has continuously advanced pressure gauge, transmitter and temperature measurement instrumentation. As the global leader in lean manufacturing, WIKA offers a broad selection of stock and custom instrumentation solutions, which are often available for distribution within days. Producing over 40 million gauges, diaphragm seals, transmitters and thermometers worldwide annually, WIKA's extensive product line provides measurement solutions for any application. The WIKA sales team, along with its customer service and technical staff members, are ready to share their extensive product and industry knowledge to make your business experience with WIKA productive and progressive.



TI.32



Thermowells

WIKA provides distinctive service and support to our channel partners and customers:

- Award winning U.S.-based manufacturing, sales and ordering customer service and technical support
- Certified technical specialists who conduct Best Practice Instrument Reviews with performance improvement reports
- An in-house engineering team for product customization and innovation
- Proven capabilities to connect with customer business processes for ordering and inventory management
- Web-based customer service features, including RFQs, literature request and competitor product cross reference

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