Thermometers

Application
Industrial type design for fluid medium which does not corrode 304 stainless steel. Designed for applications requiring local readability using a mechanical measuring element while affording an additional means of electronic data acquisition from the same instrument.

Sizes
3” (76.2 mm) - Type TT.30

Accuracy
± 1.0% of measurement range

Ranges
-40°F to 550°F (and equivalent Celsius)

Over/Under Range Protection
Temporary over or under range of 50% (maximum exposure 500°F)

Standard Features

Connection
Material: 304 stainless steel
Center back mount (CBM) - Type TT.30
1/2” NPT standard

Stem
Material: 304 stainless steel
Diameter: 1/4” (6.35 mm)
Length: 2 1/2” to 48” (63.5 mm to 1,219.2 mm)

Measuring Element (Mechanical)
Bi-metal helix

Measuring Element (Electrical)

Thermocouple
Type K Grounded Junction Thermocouple standard
(Type J, E, and T available)

RTD
Platinum 100-ohm, DIN curve (0.00385 Ohm/Ohm/K)
(3 wire standard configuration)

Case
Material: 304 stainless steel
Hermetically sealed per ASME B40.3 standard
External reset slotted hex head on back of case

Dial
White aluminum, dished, with black markings

Pointer
Black aluminum

Standard Scales
Single: Fahrenheit or Celsius
Dual: Fahrenheit (outer) and Celsius (inner)

Window
Flat instrument glass

Order Options
Weather-proof Housing and Plug
7/8-20 UNEF threaded barrel with busing and compression nut. Provides environmental protection to thermocouple/RTD connection.

Electrical Connection With Lead Wire (1/2 NPT)
Available in thermocouple or RTD in 6” increments. Allows site installation using other enclosures or piping systems.

Thermocouple Enclosure Head
A protective enclosure threads onto the optional 1/2 NPT electrical connection. The housing protects electrical connections from the environment. Houses a 4-20 mA transmitter or terminal block. Aluminum housing is standard.

Terminal Block
Provides a connection point for the thermocouple or RTD. Mounts in thermocouple head with 2 screws.

4-20 mA Transmitter
Refer to transmitter specifications

Additional Options
Thermowells
Acrylic, Lexan, and safety glass window
Calibration certification traceable to NIST

Warranty
Limited one year warranty as stated in WIKA’s Terms & Conditions of Sale
Dimensions:

**Twin-Temp Thermometer**

**Type TT.30**

w/thermocouple head

Thermocouple enclosure head connection is 1/2" NPT. Must specify "Lead-Wire" connection with thermocouple enclosure head.

**Type TT.30**

w/thermocouple connection

Optional Weatherproof Housing & Plug

**RTD Terminal Block Connection (3 Pos.)**

Customer-supplied hook-up wire attaches here

**Thermocouple Connection**

0-Ring

7/8-20 UNEF

**THE MEASURE OF**

Total Performance™

Ordering Information:
State computer part number (if available) / type number / size / range / connection size and location / options required.

Specifications given in this price list represent the state of engineering at the time of printing.
Modifications may take place and the specified materials may change without prior notice.

WIKAIInstrument Corporation
1000 Wiegand Boulevard
Lawrenceville, Georgia 30043-5868
Tel: 770-513-8200 Fax: 770-338-5118
http://www.wika.com e-mail: info@wika.com

ATM
05/02