Twin-Temp Thermometer
Twin-Temp Transmitting Accessories and Options
Models TT.32 & TT.52

Application
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.32
5" (127 mm) - Type TT.52

Accuracy
± 1.0% of measurement range

Ranges
-40 °F to 550 °F (and equivalent °C)
* 0°F to 750°F with T/C K

Over/Under Range Protection
Temporary over or under range of 50% (maximum exposure 500 °F)
* Accept high temp T/C K option

Standard Features

Connection
Material: 304 SS
Type TT.32 and TT.52 - All angle
1/2" NPT standard

Stem
Material: 304 SS
Diameter: 1/4" (6.35 mm)
Length: T/C: 2 1/2" to 48" (63.5 mm to 1,219.2 mm)
RTD: 4" to 48" (63.5 mm to 1,219.2 mm)

Measuring Element (Mechanical)
Bi-metal helix

Measuring Element (Electrical)
Thermocouple
Type J, K, E, T Grounded Junction Thermocouple standard
Ungrounded T/C available

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

Case
Material: 304 stainless steel
External reset slotted hex head on back of case

Dial
White aluminum, dished, with black markings

Pointer
Black aluminum

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

Window
Flat instrument glass

Order Options
Weather-proof Housing and Plug
7/8-20 UNEF threaded barrel with bushing 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 for 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:

Type TT.32 w/thermocouple head

Type TT.52 w/thermocouple head

Thermocouple enclosure head connection is \(\frac{1}{2}\)" NPT. Must specify "Lead Wire" connection with thermocouple enclosure head.

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Type TT.32 w/thermocouple connection

Type TT.52 w/thermocouple connection

7/8" - 20 UNEF thread connection (non-lead wire connection)

Thermocouple connection shown with Cap Plug.

RTD connection not shown

(RTD connection not shown)