Solar Digital Twin-Temp Thermometer
Model TT.80 with back connection,
Model TT.82 all angle back connection

Applications
- Power Generation
- Chemical Processing
- Anywhere temperature processes is monitored locally and remotely

Standard Version

Accuracy
Two sensors acting individually at ±1% full scale
Accuracy allowing for a difference in reading of ±2%

Connection
- Material: 304 SS
- TT.80: back connection
- TT.82: all angle back connection
- 1/2” NPT standard

Stem
- Material: 304 SS
- Diameter: 1/4” (6.35 mm)
- Length: 2 1/2” to 24” (63.5 mm to 609.6 mm)

Measuring Element (Solar)
Ceramic thermistor, 3-volt solar cell

Light required
35 LUX

Circuitry
15 second update time, patented safety circuit prevents false readings

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/°C)
    (3 wire standard configuration)

Window
Flat instrument glass

Dial Size 3”

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

Thermocouple Enclosure Head (Shown)
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.

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

Warranty
Limited one year warranty as stated in WIKA’s Terms & Conditions of Sale
Thermocouple enclosure head connection is 1/2" NPT, 3/4" field wire connection.

TT.82
w/conduit head

TT.80
w/conduit head

Thermocouple enclosure head connection is 1/2" NPT, 3/4" field wire connection.

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