

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

**OBSOLETE**

WIKA Datasheet TT.80/TT.82

## Applications

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

## Standard Version

### Accuracy

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

### 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 thermister, 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/ $^{\circ}$ C)  
(3 wire standard configuration)

### Window

Flat instrument glass

Dial Size 3"



Solar Digital Twin-Temp Model TT.82 shown

### 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*

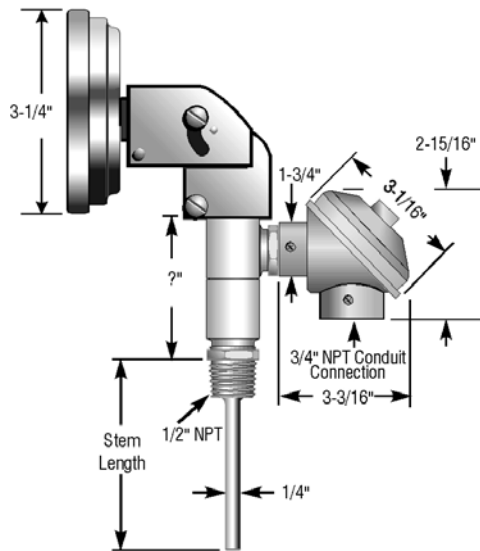
Provides a connection point for the thermocouple or RTD. Mounts in thermocouple head with 2 screws.

#### *4-20 mA Transmitter*

Refer to transmitter specifications

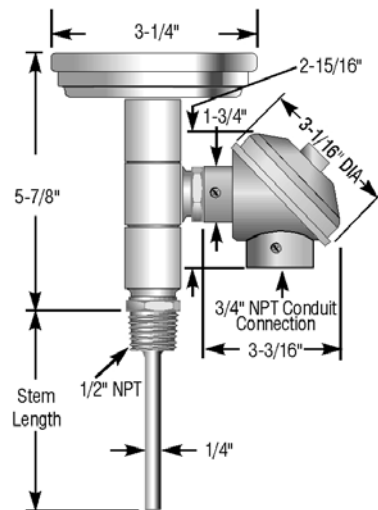
#### *Warranty*

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**



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

**TT.80**  
**w/conduit head**



**WIKAI Instrument Corporation**  
1000 Wiegand Boulevard  
Lawrenceville, GA 30043  
1-888-WIKA-USA / 770-513-8200 (in GA)  
Fax 770-338-5118  
info@wika.com www.wika.com