

Solar Digital Thermometers with Thermocouple/RTD Output

Type TT.80, TT.82

- **Two Sensors in One Location**
- **Convenient Digital Display Solar Powered (35 Lux)**
- **Thermocouple or RTD Available**



This unique thermometer has the convenience of a LCD digital output and the data acquisition capabilities of a thermocouple or RTD electrical output in one process location.

Standard Features

- **Case and Bezel:** 304 stainless steel
- **Case:** All Angle or Back Connected
- **Dial Size:** 3"
- **Process Connection:** ½" NPT Standard
- **Window:** Glass, fully gasketed
- **Hermetic Seal:** Per ASME B40.3
- **Stem:** 304 stainless steel, TIG welded at tip and case connector to prevent leakage. ¼" diameter standard, lengths available from 2½" to 24".
- **Thermocouple:** Type K grounded junction thermocouple standard. Types J, E, T available
- **RTD:** 100-Ohm thin film Platinum DIN Curve (.00385 Ohm/Ohm/°C), 3 wire standard
- **Accuracy:** ± 1% of full range span
- **Warranty:** 1 year
- **Wiring:** Twin-Temp (RTD): Red- terminal 1, Green-terminal 2, Black- terminal 3 Twin-Temp (T/C): Negative- Red always, Positive- Colored (depends on t/c type)

Note: Silicone fill not available

Datasheets: [TT.80](#), [TT.82](#)

Ordering Twin-Temp Thermometers

Type TT.80, TT.82

Sample Part Number: 80 040 D 1 G 4 R1 A R

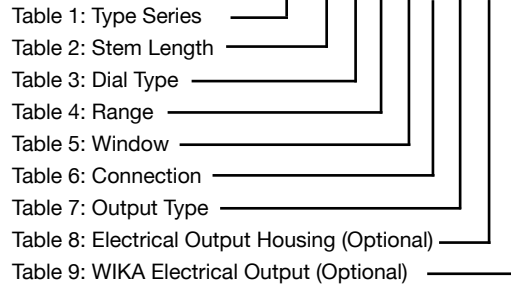


Table 1 - Type

Code	Description
80	3" Back connected (with reset)
82	3" All angle (with reset)

Table 6- Process Connection

Code	Description
4	1/2" NPT

Table 2 - Stem Length

Code	Description
025	2 1/2"
040	4"
060	6"
090	9"
120	12"
150	15"
180	18"
240	24"

Table 7 -Electrical Output

Code	Description
J1	Thermocouple output, Type J
K1	Thermocouple output, Type K
E1	Thermocouple output, Type E
T1	Thermocouple output, Type T
R1	100 Ohm RTD output, 3 wire

*Longer lead wires available. Consult factory.

Table 3 - Dial Type

Code	Description
D	WIKA Standard

Table 8 - Electrical Output Housing Options

For transmitter equipped units.

Code	Description
X	None
A	Standard aluminum head enclosure

Table 4 - Ranges

Code	Description
1	-50/300F
2	-50/150C

Table 9 - Transmitter Output

Code	Description
X	None (mandatory on all non-transmitter models)
T	4-20mA transmitter for all thermocouple output
R	4-20mA transmitter for all "R1" RTD output (see output table)
B	Terminal block (for field wiring termination)

Table 5 - Window Material

Code	Description
G	Plain glass
A	Acrylic