

ADVANCED Digital Thermometer



Single Input DTM 315

Features:

- ☐ -200°C~1370°C (-328°F~2498°F)
- ☐ 4 Digit LCD display
- ☐ Timer function
- ☐ K-type thermocouple
- ☐ Reading hold °C or °F annunciators
- ☐ Single thermocouple input
- ☐ MAX. AVG. MIN. function
- ☐ Auto power off
- ☐ HOLD, ΔREL function
- ☐ Automatic low battery indication
- ☐ Overrange indication
- ☐ RS-232 computer Interface (Option)



Dual Input DTM 316

Features:

- ☐ -200°C~1370°C (-328°F~2498°F)
- ☐ 4 Digit LCD display
- ☐ K-type thermocouple
- ☐ Function and unit sign display °C or °F annunciators
- ☐ Dual thermocouple input
- ☐ Differential temperature (T1-T2)
- ☐ MAX. AVG. MIN. function
- ☐ Auto power off
- ☐ HOLD, ΔREL function
- ☐ Automatic low battery indication
- ☐ Overrange indication
- ☐ RS-232 computer Interface (Option)



RS-232 Interface port

ADVANCED DIGITAL THERMOMETERS

Single Input DTM 315

A highly rugged and accurate thermometer which is ideal for the temperature measurement, checking freezing equipment and science laboratory or industrial use. Additional features include display reading hold and maximum, minimum, average, Δ REL, and timer facility.

Dual Input DTM 316

A sturdy and well constructed hand-held light weight thermometer that's made to last! In addition it features a dual thermocouple input for differential temperature measurements, which is capable of simultaneously indicating two temperatures.

Specifications	Model	
	315	316
Input	Single	Dual
Measurement Range	-200°C to 1370°C (-328°F to 2498°F)	
Operating Range	For use in 0°C to 50°C (32°F to 122°F) environment	
Accuracy (18°C to 28°C ambient)	$\pm(0.3\% \text{ rdg} + 1^\circ\text{C})$, -200°C to 1370°C except $\pm(0.5\% \text{ rdg} + 1^\circ\text{C})$, 200°C to 400°C $\pm(0.3\% \text{ rdg} + 2^\circ\text{F})$, -328°F to 2498°F except $\pm(0.5\% \text{ rdg} + 2^\circ\text{F})$ 200°F~400°F The accuracy specification does not include type K thermocouple probe accuracy.	
Temperature Coefficient	From 0°C to 18°C and 28°C to 50°C. add the following tolerance into the accuracy spec. 0.01% of reading + 0.03°C (0.01% of reading + 0.06°F)	
Temperature Scale	Celsius or Fahrenheit user-selectable	
Resolution	-200°C~200°C 0.1°C; 200°C~1370°C, 1°C/ -200°F~200°F 0.1°F; 200°F~2498°F 1°F	
Sensor	K-type thermocouple	
Sampling Rate	2.5 times/per second	0.6 times/per second
Operation Function	• Data Hold • °C or °F Selectable • Simultaneous MAX. AVG. MIN Measurement • Δ REL • Timer • The latest 8 data memory	• 2 points (T1, T2) selectable display • Differential measurement between 2 points (T1, -T2) • Data Hold • °C or °F selectable • Simultaneous MAX. AVG. MIN Measurement • Δ REL • The latest 8 data memory
Size	7.2" x 2.5" x 1.2" (184mm x 64mm x 30mm)	
Weight	7.4oz (210g) including battery	
Power	9V battery 100hrs.	
Accessories	• Battery • Soft Carrying Case • Operator's Manual • 4 foot type "K" thermocouple bead probe (TPK-01)	
Input Protection	Maximum input 60V DC or 24V rms AC	
Display	• 4 digit LCD • Display units: °C, °F, MIN, AVG, MAX, Δ REL, $\square\square:\square\square$ • Overrange indicator: ---- • Low battery indicator: $\square$ • Auto Power off	• 4 digit LCD • Input selection: T1, T2, T1-T2 • Display units: °C, °F, T1, T2, T1-T2, MIN, AVG, MAX, Δ REL. • Overrange indicator: ---- • Low battery indicator: $\square$ • Auto Power off

RS232/Tripot Stand/Type K thermocouple probe (Option)

Model	Measuring Range	Description
TPK-01 Bead Probe	-50°C~200°C/-58°F~392°F	For measuring surface or air temperatures. 4ft. wire with an industry standard miniature connector plug.
TPK-03 Immersion Probe	-50°C~800°C/-58°F~1472°F	General purpose needle type with stainless sheath. For measuring liquid or gel.
TPK-04 Surface Probe	-50°C~800°C/-58°F~1472°F	Fast response probe. Ideal for measuring the surface temperature of small electronic parts.
SE-300	N/A	Thermolink, RS-232 Interface cable plus software
BS-6	N/A	Tripod Stand for DTM-315, 316