

# TECPEL®

## Digital Thermometers



**Single Input  
DTM 305B**

**Dual Input  
DTM 307B**



**Features:**

- Probe Connection Detector —
- 50°C ~1300°C (-58°F~2000°F)
- 3 1/2 Digit LCD display
- K-type thermocouple
- Reading Hold °C or °F annunciators
- Single thermocouple input
- Switchable resolution 0.1° / 1.0°
- Front panel offset adjustment
- Automatic low battery indication
- Maximum/minimum record
- Overrange indication

**Features:**

- Probe Connection Detector — —
- 50°C~1300°C (-58°F~2000°F)
- 3 1/2 Digit LCD display
- K-type thermocouple
- Function and unit sign display °C or °F annunciators
- Dual thermocouple input
- Differential temperature (T1-T2)
- Front panel offset adjustment
- Maximum/minimum record
- Reading hold
- Automatic low battery indication
- Overrange indication
- Switchable resolution 0.1° / 1.0°





# Digital Thermometers

**TECPEL**<sup>®</sup>  
Your Reliable Partner in T&M™

## Test and Measurement

### Single input



DTM 305B

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 record hold facility.

### Dual input



DTM 307B

A sturdy and well constructed hand-held light weight thermometer that's made to last! This rugged unit is also well protected by a tough protective holster. In addition it features a dual thermocouple input for differential temperature measurements.

Specifications	Model	
	305B	307B
Input	Single	Dual
Measurement Range	-50°C to 1300°C (-58°F to 2000°F)	
Operating Range	For use in 0°C to 50°C (32°F to 122°F) environment	
Accuracy (18°C to 28°C ambient)	±(0.3% rdg + 1°C), -50°C to 1000°C ±(0.5% rdg + 1°C), 1000°C to 1300°C ±(0.3% rdg + 2°F), -58°F to 2000°F The accuracy specification does not include type K thermocouple probe accuracy.	
Temperature Coefficient	Less than 0.1 times the applicable accuracy specification per °C. From 0°C to 18°C and 28°C to 50°C.	
Temperature Scale	Celsius or Fahrenheit user-selectable	
Resolution	1°C or 1°F or 0.1°C or 0.1°F, (Below 200°C or 200°F)	
Sensor	K-type thermocouple	
Sampling Rate	2.5 times/per second	
Operation Function	<ul style="list-style-type: none"> <li>• Data Hold</li> <li>• °C or °F Selectable</li> <li>• 0.1°/1° display resolution selectable</li> </ul>	<ul style="list-style-type: none"> <li>• 2 points (T1, T2) selectable display</li> <li>• Differential measurement between 2 points (T1, -T2)</li> <li>• Data Hold</li> <li>• °C or °F selectable</li> <li>• 0.1°/1° display resolution selectable</li> </ul>
Size	7.2" x 2.5" x 1.4" (184mm x 62mm x 35mm)	
Weight	12.2oz (350g) including battery	
Power	9V battery 200hrs.	
Accessories	<ul style="list-style-type: none"> <li>• Battery</li> <li>• Protective Rubber Holster</li> <li>• Operator's Manual</li> <li>• 4 foot type "K" thermocouple bead probe (TPK-01)</li> </ul>	
Input Protection	Maximum input 60V DC or 24V rms AC	
Display	<ul style="list-style-type: none"> <li>• 3-1/2 digit LCD</li> <li>• DH (Data Hold)</li> <li>• Display units: °C, °F</li> <li>• Overrange indicator : □L</li> <li>• Low battery indicator: □</li> </ul>	<ul style="list-style-type: none"> <li>• 3-1/2 digit LCD</li> <li>• Input selection: T1, T2, T1-T2</li> <li>• DH (Data Hold)</li> <li>• Display units: °C, °F, T1, T2, T1-T2</li> <li>• Overrange indicator : □L</li> <li>• Low battery indicator: □</li> </ul>

### 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~500°C/-58°F~1472°F	Fast response probe. Ideal for measuring the surface temperature of small electronic parts.



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