

Application

- Industrial Maintenance
- HVAC Systems
- Food Processing & Storage
- Laboratory & R&D
- Plastics & Molding

Features

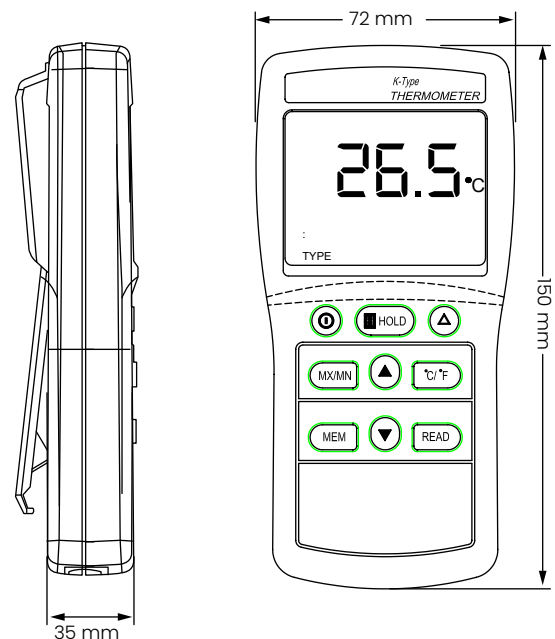
- **Wide Measurement Range:** Reliable measurement from -50°C to 1350°C (-58°F to 1999°F).
- **Selectable Resolution:** Switch between 0.1° or 1° resolution based on application needs.
- **Max Hold Function:** Captures and holds the highest temperature reading during a measurement session.
- **Data Hold Function:** Freezes the current reading on the display for easy recording.
- **Offset Adjustment:** Allows for manual adjustment to correct calibration deviations.
- **Input Protection:** Maximum input protection of 60V DC / 24Vrms against voltage surges.
- **Display:** Large, easy-to-read LCD screen.



Description

The TES-1311A, developed by TES Electrical Electronic Corp., is a high-precision, professional K-type thermometer designed for reliable temperature measurements in industrial and laboratory environments. Built with a rugged and ergonomic design to withstand demanding field conditions, this device offers a wide measurement range and rapid response time, making it an essential tool for technicians and engineers. Its user-friendly interface allows for immediate monitoring of temperature fluctuations, while the switchable resolution settings ensure precise results even in the most critical measurement scenarios.

Beyond simple real-time monitoring, the device facilitates data analysis with features such as Maximum Value Memory (Max Hold) and Data Hold. Equipped with a high-quality K-type thermocouple input, the TES-1311A operates across a broad spectrum from -50°C to 1350°C . Its ability to measure in both Celsius and Fahrenheit, combined with an Offset Adjustment function, allows the device to perfectly adapt to various international standards and calibration requirements, ensuring consistent accuracy over time.



Specification

Measuring Range	1311A: -73°C to +1370°C (-100°F to +2498°F) 1312A: -200°C to +1360°C (-200°F to +1999°F)
Display Resolution	0.1°C/°F < 2000° 1.0°F ≥ 2000°
Measurement Accuracy	1311A: ± [0.1% of reading +1°C (2°F)] 1312A: ± [0.3% of reading +1°C (2°F)]
Temperature Coefficient	0.1% of reading +0.1°C per °C (0.2°F per °F) outside the specified +18°C to 28°C (+64°F to 82°F) range.
Data Memory Capacity	1311A: 150 sets (Direct reading from LCD display).
Input Protection	20V maximum input voltage
Sampling Rate	1311A: 4.5 time/sec 1312A: 1 time/sec
Operating/Storage Conditions	0°C ~ 50°C < 80% RH / -10°C ~ 60°C < 70%RH
Power Source	6 pcs size AAA Battery
Battery Life	1311A: Approx. 110 hours. 1312A: Approx. 200 hours.
Size	150(L)×72(W)×35(H)mm
Weight	Approx. 235g
Accessories	Instruction manual, Battery