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BIG BOOM EP-90855BIG BOOM

BIG BOOM® 2M Temperature Sensor Earth Thermocouple Probe J Type P6T0 User Manual

Model: EP-90855BIG BOOM

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your BIG BOOM® 2M Temperature Sensor Earth Thermocouple Probe, J Type. This probe is designed for accurate temperature measurement in various industrial and scientific applications. Please read this manual thoroughly before use to ensure safe and efficient operation.

2. Product Overview

The BIG BOOM® J-Type Thermocouple Probe is a robust temperature sensing device. It features a 2-meter cable and a 205mm x 1.5mm probe tip, suitable for earth temperature sensing and other applications requiring a durable, extended probe.

Key Features:

- J-Type Thermocouple: Utilizes Iron-Constantan for temperature measurement.
- 2-Meter Cable Length: Provides flexibility for various installation distances.
- Durable Probe Construction: Designed for reliable performance.
- Standard Connectors: Equipped with standard spade connectors for easy integration.

Components Included:

- 1 x BIG BOOM® 2M J-Type Thermocouple Probe



Figure 1: The BIG BOOM J-Type Thermocouple Probe, coiled, showing the cable and spade connectors.

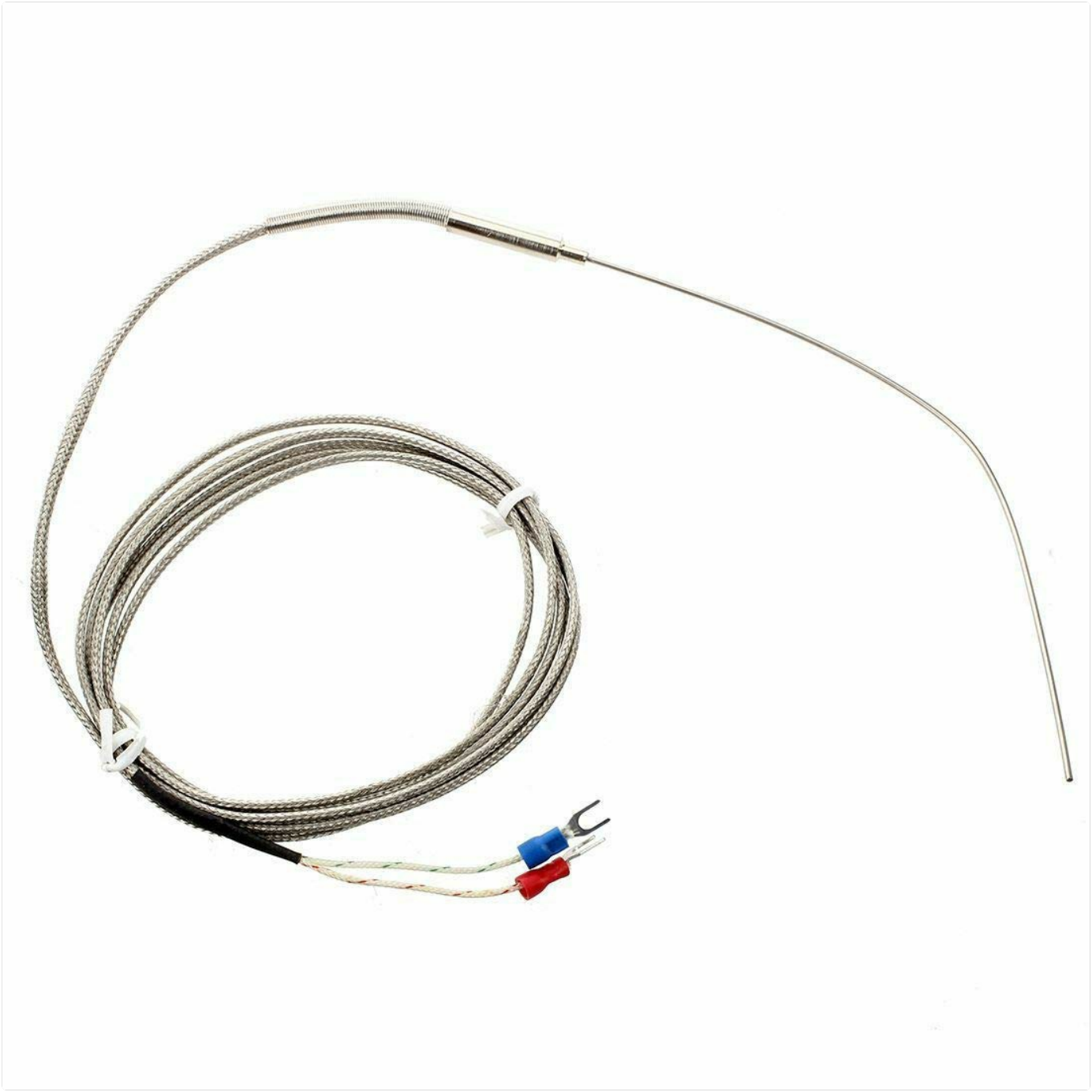


Figure 2: The BIG BOOM J-Type Thermocouple Probe fully extended, highlighting the metal probe tip and cable length.

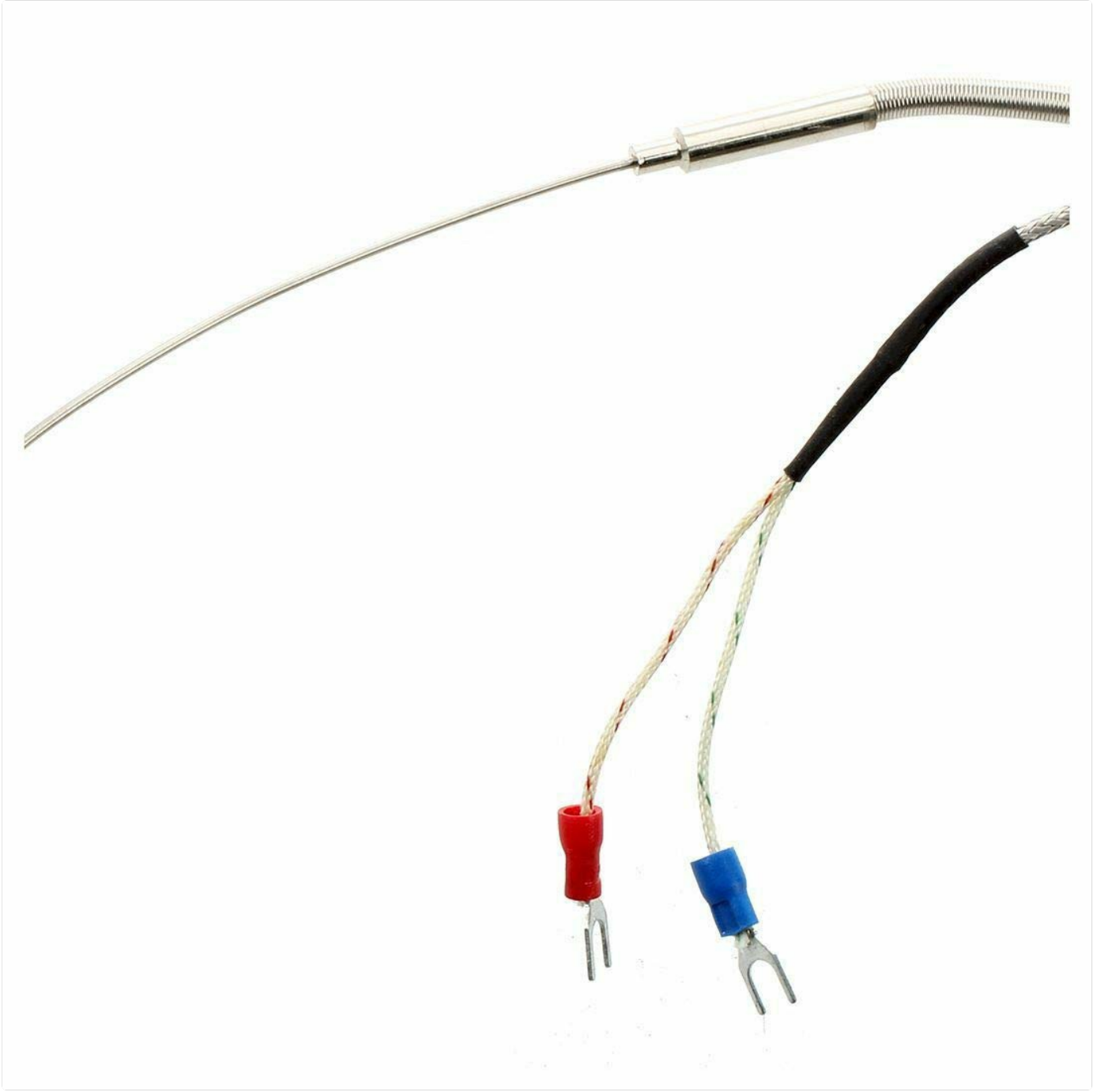


Figure 3: Detailed view of the probe tip and the color-coded spade connectors (red and blue) for connection.

3. Setup and Installation

Follow these steps for proper installation of your thermocouple probe:

1. **Identify Connection Points:** Locate the appropriate J-Type thermocouple input terminals on your temperature measurement device (e.g., multimeter, temperature controller, data logger).
2. **Connect the Probe:** Connect the red spade connector of the thermocouple to the positive (+) terminal and the blue spade connector to the negative (-) terminal of your measurement device. Ensure a secure connection.
3. **Position the Probe:** Insert the metal probe tip into the environment or material where temperature measurement is required. For earth temperature sensing, ensure the probe is adequately buried or positioned to achieve stable contact with the soil.
4. **Secure the Cable:** Route the 2-meter cable away from potential hazards or sources of interference. Use cable ties or clips if necessary to secure the cable.
5. **Verify Connection:** Before taking measurements, ensure all connections are correct and secure.

4. Operating Instructions

Once the thermocouple probe is correctly installed and connected to a compatible measurement device, operation is straightforward:

1. **Power On:** Turn on your temperature measurement device.
2. **Select J-Type:** If your device supports multiple thermocouple types, ensure that 'J-Type' is selected in the device settings. Incorrect selection will result in inaccurate readings.
3. **Monitor Readings:** Observe the temperature readings on your device. Allow sufficient time for the probe to stabilize and reach thermal equilibrium with the measured environment.
4. **Record Data:** Record temperature data as needed, following the instructions for your specific measurement device.

5. Maintenance

To ensure the longevity and accuracy of your BIG BOOM® J-Type Thermocouple Probe, follow these maintenance guidelines:

- **Cleaning:** Gently wipe the probe tip with a clean, dry cloth after use. Avoid using abrasive materials or harsh chemicals that could damage the probe.
- **Inspection:** Periodically inspect the cable and probe tip for any signs of damage, such as cuts, kinks, or corrosion. Damaged probes should be replaced.
- **Storage:** Store the probe in a clean, dry environment, away from extreme temperatures and direct sunlight. Coil the cable loosely to prevent kinking.
- **Calibration:** While thermocouples generally do not require frequent calibration, if you suspect inaccurate readings, compare them against a known reference temperature or consult a calibration service.

6. Troubleshooting

If you encounter issues with your thermocouple probe, consider the following:

- **No Reading or Erratic Readings:**
  - Check all connections to ensure they are secure and correctly polarized (red to +, blue to -).
  - Verify that the measurement device is set to J-Type thermocouple input.
  - Inspect the cable and probe for visible damage.
  - Ensure the probe tip is in good contact with the material being measured.
- **Inaccurate Readings:**
  - Confirm the measurement device is correctly configured for J-Type.
  - Ensure the probe is fully immersed or in stable contact with the target environment.
  - Compare readings with a known accurate thermometer if possible.
  - Avoid placing the cable near strong electromagnetic fields, which can induce noise.

7. Specifications

Parameter	Value
Thermocouple Type	J-Type (Iron-Constantan)
Cable Length	2 Meters
Probe Dimensions	205mm (length) x 1.5mm (diameter)

Connectors	Spade Connectors (Red for +, Blue for -)
Product Dimensions (Packaged)	15 x 5 x 10 cm
Model Number	EP-90855BIG BOOM

8. Warranty and Support

For any queries, technical assistance, or support regarding your BIG BOOM® J-Type Thermocouple Probe, please contact the seller directly. Refer to your purchase documentation for seller contact information.
Disclaimer: Product color may slightly vary due to photographic lighting sources or your monitor settings.

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