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# 80PK-11

## *Type-K Velcro Thermocouple Temperature Probe*

*Instruction Sheet*

## *Introduction*

The 80PK-11 is a Type-K Velcro Thermocouple Temperature Probe designed for HVAC temperature measuring applications. The 20 inch PVC cable terminates with a Type-K thermocouple inside a 19.5 inch nylon Velcro cuff. The 80PK-11 can be used with any temperature measuring instrument that is designed to accept Type-K thermocouples and has a miniature connector input. The 80PK-11 is not suitable for liquid immersion but can work in humid to wet environments.

**⚠⚠Warning**

**To avoid electrical shock, do not use this probe when voltages exceeding 24 V rms or 60 V dc are present. The probe tip is electrically connected to the output terminals.**

## *Specifications*

**Type:** K Special Grade (Chromel vs Alumel)

**Measurement Range:** -30 ºC to 105 ºC (-22 ºF to 221 ºF)

**Display Accuracy:** ± 0.1 ºC (0.1 ºF)

**Measurement Time (Time Constant):** 2 seconds

# Measurement Considerations

## Instrument Compatibility

The 80PK-11 is designed to be compatible with any temperature measuring instrument that accepts Type-K thermocouples, has a miniature thermocouple connector, and has cold reference junction compensation. Accuracy of the temperature measuring instrument must be considered along with the 80PK-11 accuracy specification in order to determine the overall accuracy of the combination.

## Temperature Limitations

The 200 °C (392 °F) continuous temperature rating of the 80PK-11 is primarily determined by the Hytrel insulation. The bead alone may be momentarily subjected to higher temperatures without damage.

## Media Limitations

Type-K Chromel-Alumel thermocouple wires are compatible with clean oxidizing atmospheres.

# Operation

**⚠Caution**

**Repeated sharp bending can break the 80PK-11 lead. To protect the lead, avoid sharp bends, especially near the connector.**

Use the 80PK-11 as follows:

1. Connect the probe to a compatible Type-K measuring instrument using the miniature thermocouple connector (0.500 in pin spacing).
2. Turn on the measuring instrument and select the appropriate range and scale.
3. Check the readout on the measuring instrument. With no heat or cold source applied to the sensor, it should