

## INTRODUCTION

TS-03 Temperature Probe is a non contact temperature measurement accessory for use with a test instrument capable of measuring DC volts in the millivolt range (200mV/400mV/600mV/2V/4V/6V range) such as a digital multimeter (DMM) 'or' digital clamp meter (DCM). The probe has a temperature range of -30°C to 550°C (-22°F to 1022°F), with a basic accuracy of ±2% of reading, and an output of 1 mV dc per °C or °F.

Temperature is measured by pointing the probe at the surface to be measured, and reading the temperature on the test instrument display.

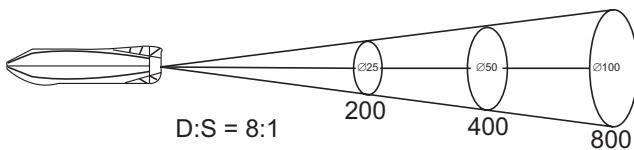
## COMPATIBILITY

The probe is compatible with all DC millivolt measuring instruments that have a minimum of 1 MΩ input impedance and accept safety shrouded, standard diameter 0.16 in. (4 mm) banana plugs

## FIELD OF VIEW

The meter's field of view is 8:1, meaning that if the meter is 8 inches from the target, the diameter of the object under test must be at least 1 inch. Other distances are shown below in the field of view diagram.

Distance(D) to Spot Size(S)



## GENERAL SPECIFICATIONS

Response rate	0.5 second approx.
Operating Temperature	32°F to 122°F (0°C to 50°C)
Operating Humidity	Max. 80% RH.
Power Supply	9V battery
Weight	182g
Size	164 x 50 x 40mm

## TECHNICAL SPECIFICATIONS

### Infrared Thermometer Specifications

Range	-30 to 550°C/-22 to 1022°F
Output	1mV / 1°C or 1 °F
Accuracy	± 2% of reading or ± 4°F (2°C) whichever is greater. Note: Accuracy is specified for the ambient temperature range of 64 to 82°F (18 to 28°C)
Emissivity	0.95 fixed value
Field of View	D/S = Approx. 8:1 ratio (D = distance, S = spot) (Has 90% encircled energy at the focal point)
Laser power	Less than 1mW
Spectral response	6 to 14 μm (wavelength)

\*Technical Specifications & Appearance are subject to change without prior notice