

ALTEK

# INFRARED / TYPE K THERMOMETER MODEL 570

- INFRARED: -20°C to 500°C (-4°F to 932°F)
- TYPE K T/C INPUT: -50°C to 1370°C (-58°F to 1999°F)
- BUILT-IN LASER SIGHTING
- ADJUSTABLE EMISSIVITY: 0.1 to 1.0
- BACKLIT DISPLAY WITH °C/°F READOUT
- AUDIO AND VISUAL ALARMS
- MAX HOLD
- AUTOMATIC SLEEP MODE
- POCKET-SIZED, EASY TO USE



DATA SHEET 570

## GENERAL INFORMATION

### Two Thermometers in One

The Altek Model 570 is an infrared thermometer and a digital contact thermometer with a type K thermocouple input packaged into one compact case. Since the type K thermometer is combined with an infrared thermometer into one package, you get two great instruments for the price of one! This instrument continues the Altek tradition of providing excellent value for the price.

### Easy to Use

The conveniently sized hand-held infrared / type K thermometer is easy to use and simple to read. The backlight function makes the display simple to read even in the dark. The red sighting laser provides easy targeting. Adjust the emissivity of the 570 to that of the object being measured to achieve better accuracy. Moreover, the infrared thermometer will automatically go into sleep mode after 15 seconds to preserve battery life.

### Thermocouple Thermometer

Connect any Type K thermocouple to measure temperatures in the lab or field. Press a button to recall the MAXimum and MINimum measured temperatures.

### Infrared Thermometer

The Altek 570 can be used for measuring surface temperatures of moving or rotating objects, objects that are electrically live, or hard to reach objects. Seek out hot spots in electrical panels, breakers, gearboxes, bearings, rotating machinery, lighting ballasts, process equipment, and more. The Altek 570 is an invaluable tool in any preventive maintenance program and for process control applications.

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## SPECIFICATIONS

Unless otherwise indicated, specifications are for 1 year in  $\pm$ (% of reading + number of digits) @ 23°C

### General

**Display:** Backlit LCD  
**Auto Power Off:** Approx. 15 Seconds (Infrared)  
**Over Range Indicator:** OL will be displayed  
**Operating Temperature Range:** 32°F to 104°F (0°C to 40°C)  
**Storage Temperature Range:** 14°F to 140°F (-10°C to 60°C)  
**Operating Relative Humidity:** 0% to 80%  
**Storage Relative Humidity:** 0% to 70%  
**Altitude Range:** Up to 6,500 feet  
**Power Supply:** 9V, (NEDA 1604, IEC 6F22, or 006P)  
**Battery Life:** Approx. 50 hours (laser pointer and backlighting turned off)  
**Safety Standards:** CE-certified  
**Overall Size:** 6.7"L x 2.1"W x 1.5"H (170mm x 52mm x 38mm)  
**Weight:** Approx. 0.4lb (180g), includes battery

### INFRARED THERMOMETER

**Measurement Range:** -4°F to 932°F (-20°C to 500°C)  
**Resolution:** 1°F, 1°C  
**Accuracy:**  $\pm 3\%$  of reading or  $\pm 6^\circ\text{F}$  (3°C), whichever is greater  
**Temperature Coefficient:** 0.1 times the applicable accuracy specification per °C from 0°C to 18°C (32°F to 64°F) and from 28°C to 40°C (82°F to 104°F)  
**Spectral Response:** 6 to 14 micron  
**Field of View:** 8:1 distance to spot ratio with a 1" min target  
**Emissivity:** Adjustable from 0.1 to 1.0  
**Sighting:** Laser marker 1mw  
**Sensor:** Thermopile

### Type K Thermometer

**Measurement Range:** -58°F to 1999°F (-50°C to 1370°C)  
**Resolution:** 0.1° from -58°F/-50°C to 200°F/°C  
1° from 200°F/°C and above

#### Accuracy:

Scale	Resolution	Range	Accuracy
°C	0.1°C	-50°C to 0°C	$\pm(0.2\%rdg + 1.0^\circ\text{C})$
		0°C to 200°C	$\pm(0.1\%rdg + 0.8^\circ\text{C})$
	1°C	200°C to 1370°C	$\pm(0.2\%rdg + 2^\circ\text{C})$
°F	0.1°F	-58°F to 32°F	$\pm(0.2\%rdg + 2.0^\circ\text{F})$
		32°F to 200°F	$\pm(0.1\%rdg + 1.6^\circ\text{F})$
	1°F	200°F to 1999°F	$\pm(0.2\%rdg + 3^\circ\text{F})$

**Temperature Coefficient:** 0.1 times the applicable accuracy specification per °C from 0°C to 18°C (32°F to 64°F) and from 28°C to 40°C (82°F to 104°F)

*Note: The basic accuracy specification does not include the error of the probe. Please refer to your probe accuracy specification for additional details.*

*Specifications subject to change without notice*

## ADDITIONAL INFORMATION

### LIFETIME WARRANTY PROGRAM

Our equipment is guaranteed against defective material and workmanship (excluding batteries and test leads) for a period of one year. For a lifetime warranty: (1) Simply register the unit upon receipt by completing and returning the product's Warranty Registration Card. (2) Once a year, send the unit to any Altek authorized distribution center for factory re-certification. Claims under warranty can be made by returning the equipment prepaid to any authorized Altek distributor. Altek will repair, recalibrate or replace free of charge any unit found to be defective or out of calibration at any time between re-certification intervals. The liability of Altek is restricted to that given under our guarantee. No responsibility is accepted for damage, loss or other expense incurred through sale or use of our equipment. Under no condition shall Altek be held liable for any special, incidental or consequential damage.

### OTHER PRODUCTS

Altek designs and manufactures fast, accurate instruments for measurement, generation and simulation of virtually every process control signal. Consult our factory directly or contact your local stocking representative to order precise, low cost Milliamp Calibrators, Voltage Sources, Thermocouple Sources, RTD Simulators, Frequency Calibrators and Pressure Pumps, Indicators & Calibrators, as well as electrical test instruments. Altek also produces calibrators for custom ranges and unique applications. New models are frequently added to the Altek family to meet all of your critical calibration requirements.

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100913-901 Rev A

### ORDERING INFORMATION

**Infrared / Type K Thermometer**  
Included with each Model 570 are:  
Carrying Case  
Instruction Manual 100913-900  
9V battery (installed)  
Certificate of Conformity and Lifetime Warranty

### Part No.

**570**

### AVAILABLE FROM