

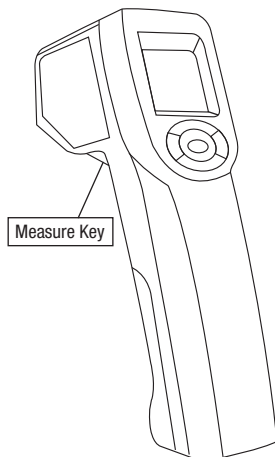


## ATD70000 8:1 LASER INFRARED THERMOMETER

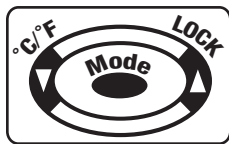
This non-contact infrared thermometer constantly displays real-time maximum (MAX) data.

Please remember to keep away from children and do not use it for safety related applications.

1. Simply aim the thermometer at the target with Lens and press MEASURE key to display the surface temp.
2. During the measurement, the MAX reading will be displayed beside the MAX icon.
3. Please make sure the target area is within the appropriate field of view.



### FUNCTIONS:



E	Press the MODE key to set the emissivity for 0.95 or 0.70 (the default emissivity is 0.95)
Lock	Press the LOCK key for Lock mode ON/OFF. The lock mode is useful for continuous monitoring of temperatures for up to 60 minutes.
°C or °F	Press °C/°F key to toggle between °C or °F
Memory	Recall the last reading in memory by pressing the °C/°F key while the power is off
Laser	Hold the MEASURE key and then press the MODE key to turn the laser ON or OFF
Backlight	Hold the MEASURE key and then press the LOCK key to turn the backlight ON or OFF

\*The thermometer will automatically shut off if left idle for more than 15 seconds.

### CAUTION

1. When device is in use, do not look directly into the laser beam. Permanent eye damage may result.
2. Use extreme caution when operating the laser.
3. Never point the device towards anyone's eyes.
4. Keep out of reach of all children.

### STORAGE & CLEANING

Unit should be stored at room temperature. The lens should be kept clean at all times, care should be taken when cleaning the lens using only a soft cloth or cotton swab with water or medical alcohol. Allowing the lens to fully dry before using the thermometer. Do no submerge any part of the thermometer.

### LCD ERROR MESSAGES

The thermometer incorporates visual diagnostic messages as follows:

((HI/LOW)): 'Hi' or 'Lo' is displayed when the temperature being measured is outside the measurement range.

'Er2': is displayed when the thermometer is exposed to rapid changes in the ambient temperature.

'Er3': is displayed when the ambient temperature exceeds 0°C (32°F) or 50°C (122°F). The thermometer should be allowed plenty of time (minimum 30 minutes) to stabilize to the working/room temperature.

'Er': Error 5-9, for all other error messages it is necessary to reset the thermometer. To reset, turn the instrument off, remove the battery and wait for a minimum of one minute, reinsert the battery and turn on. If the error message remains please contact the Service Department for further assistance.

### BATTERIES

The thermometer incorporates visual low battery indication as follows:



'Battery OK': measurements are possible



'Battery Low': battery needs to be replaced, measurements are still possible



'Battery Exhausted': measurements are not possible

When the 'Low Battery' icon indicates the battery is low, the battery should be replaced immediately with AAA, 1.5V batteries. Please note: It is important to turn the instrument off before replacing the battery otherwise the thermometer may malfunction. Dispose of used battery promptly and keep away from children.

## SPECIFICATIONS

Measurement Range	-38 to 365°C (-36.4 to 689°F)
Operating Range	0 to 50°C (32 to 122°F)
Accuracy, (Tobj=15-35°C, Tamb=25°C)	±1.5°C (2.7°F)
Accuracy, (Tamb=23 ±3°C)	Tobj=0 to 365°C: ±2.5% of reading or 2.5°C (4.5°F) whichever is greater Tobj=-38 to 0°C: ±(2.5°C+0.05/°C)
Emissivity	0.95 or 0.70 (the default emissivity is 0.95)
Resolution (-9.9 to 199.9°C)	0.2°C/0.5°F, otherwise 1°C/1°F
Response Time (90%)	1 sec
Distance:Spot	8:1
Battery Life	Typ. 18, min 14 hours continuous use
Dimensions	112.58 x 147.93 x 41.36mm (4.43 x 5.82 x 1.63")
Weight	145 g (5.1 oz) including batteries (AAA-2 pcs)

**Note:** Under the electromagnetic field of 3V/m from 350 to 550MHz, the maximum error is 8°C (14.4°F.)

**EMC/RFI:** Readings may be affected if the unit is operated within radio frequency electromagnetic field strength of approximately 3 volts per meter, but the performance of the instrument will not be permanently affected.