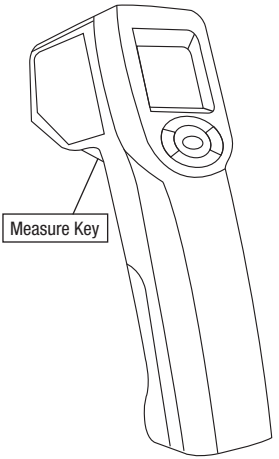
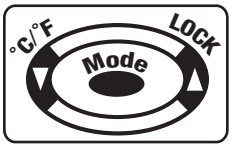
ATD70001 12:1 LASER INFRARED THERMOMETER



Please remember to keep away from children and don't 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. The Distance:Spot is 12:1. Please make sure the target area is within the field of view.

Press the MODE Key for scrolling through display functions.



E	Here will show the emissivity data. (The default emissivity is 0.95)
↑E↓	Press the MODE key, then press the LOCK key or ˚C/˚F key to set the emissivity, then press the MODE key to confirm. The emissivity can be changed from 0.10 (10E) to 1 (100E.)
MAX MIN DIF AVG	Press MODE key for Maximum (MAX), Minimum (MIN), Difference between MAX and Min (DIF) and Average (AVG) modes. During the measurement, the special modes reading will be displayed beside the mode icon.
HAL LAL	Press LOCK key or ˚C/˚F key to change the High Alarm (HAL) or Lo Alarm (LAL) limit. Then press the MEASURE key to confirm. When reading is outside the High Alarm (HAL) or Lo Alarm (LAL) limit the high or low icon will flash and you will hear a beep.

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

In E, MAX, MIN, DIF, AVG mode	Press LOCK key for LOCK mode ON/OFF. The lock mode is particularly useful for continuous monitoring of temperatures for up to 60 minutes.
	Press ˚C/˚F key for ˚C or ˚F transferred.
In all modes: First hold the MEASURE key	and press the LOCK key for backlight function ON/OFF
	and press the ˚C/˚F key for laser function ON/OFF
Memory	Recall the last reading memory by pressing MODE key while power is off.

⚠ 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 of the setting of HAL and LAL.

'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	-60 to 550˚C (-76 to 1022˚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 550˚C: ±2% of reading or 2˚C (4˚F) whichever is greater Tobj=-60 to 0˚C: ±(2˚C+0.05/˚C)
Emissivity	0.95 default - adjustable 0.1 to 1 step .01
Resolution (-9.9 to 199.9˚C)	0.1˚C/0.1˚F, otherwise 1˚C/1˚F
Response Time (90%)	1 sec
Distance:Spot	12:1
Battery Life	Typ. 18, min 14 hours continuous use
Dimensions	112.58 x 147.93 x 41.36mm (4.43x5.82x1.63")
Weight	145 grams (5.1 oz) including batteries (AAA*2 pcs)

Note: Under the electromagnetic field of 3V/m from 200 to 600MHz, the maximum error is 10˚C (18˚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.