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**IES**  
42-00 incorporates visual low battery indication as follows:



'Battery OK': measurements are possible



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



'Battery Exhausted': measurements are not possible

**BATTERY REPLACEMENT**

'Low Battery' icon indicates the battery is low, the battery should be replaced immediately with a lithium cell. The battery is located under the twist cover at the rear of the # 39642-00. Please be important to turn the instrument off before replacing the battery otherwise the # 39642-00 may be damaged.

Use of used battery properly and keep away from children.

**CARE & CLEANING**

The lens is the most delicate part of the # 39642-00. The lens should be kept clean at all times, and should be taken when cleaning the lens using only a soft cloth or cotton swab with water or medical alcohol. Following the lens to fully dry before using the # 39642-00, do not submerge any part of the # 39642-00. The # 39642-00 should be stored at room temperature.

**TECHNICAL SPECIFICATION**

Temperature Range	-27 to 428°F (-33 to 220°C)
Resolution	0.1°F or °C (switchable)
Response Time	1 second
Accuracy	±2% of reading or 3.6°F
Optics	1:1 optics ratio
Emissivity	0.95 default – adjustable 0.01 to 1 emissivity
Power	40 hours continuous use (auto power off after 15 seconds)
Battery	CR2032
Display	Custom LCD
Dimensions (W*H*D)	1.47*2.68*0.71"
Weight	32 grams including battery

The instrument may be affected if the unit is operated within a radio frequency electromagnetic field strength of greater than 3 volts per meter, but the performance of the instrument will not be permanently affected.

**WARRANTY**

The # 39642-00 is guaranteed for a period of one year from the date of purchase against mechanical and manufacturing defects. There are no user serviceable parts inside the instrument. Any attempted unauthorized repairs voids the warranty.

**# 39642-00 Thermometer Operating Instructions**

The # 39642-00 thermometer is a non-contact infrared thermometer. Simply aim the thermometer at the target and press the measurement button to display the surface temperature. The distance to target ratio is 1:1 therefore the thermometer should be positioned as close to the target as possible.

**°F OR °C MODE**

To change the # 39642-00 from '°F' to '°C' or from '°C' to '°F', firstly turn the instrument on by pressing the measurement button, then press the mode button four times, the '°F' or '°C' symbol will flash, press the measurement key to change to scale, then press the measurement button to confirm the mode.

**MINIMUM OR MAXIMUM MODE**

To utilize the # 39642-00's minimum or maximum mode, firstly turn the instrument on by pressing the measurement button, then press the mode button once for minimum or twice for maximum function. The 'MIN' or 'MAX' icon will flash, then press the measurement button to confirm the minimum or maximum mode. The # 39642-00 will display the minimum or maximum reading only.

**LOCK MODE**

The lock mode is particularly useful for continuous monitoring of temperatures. To utilize the # 39642-00's lock mode, firstly turn the instrument on by pressing the measurement button, then press the mode button three times for the lock mode function. The lock icon will flash, then press the measurement button to confirm the lock measurement mode. The # 39642-00 will continuously display the temperature for up to 60 minutes or until the measurement button is pressed.

**EMISSIVITY**

The # 39642-00 infrared thermometer is supplied with a default emissivity of 0.95. The emissivity of the # 39642-00 can be changed from 0.01 (1E) to 1 (100E). Changes should only be carried out by experienced personnel. To change the # 39642-00's emissivity firstly turn the instrument on by pressing the measurement button, then press the mode button five times for emissivity function. The 95E will flash on the LCD screen, then press the measurement button to adjust the emissivity value, press the mode button again to exit the set up screen. For information relating to the emissivity of specific materials, please contact the nearest retailer. Note: non-contact infrared thermometers are not recommended for use in measuring the temperature of shiny or polished metals.

**LCD ERROR MESSAGES**

The # 39642-00 incorporates visual diagnostic messages as follows:



'Hi' or 'Lo' is displayed when the temperature being measured is outside of the range of the instrument, 'Hi' when higher than +428°F and 'Lo' when lower than -27°F.



'Er2' is displayed when the # 39642-00 is exposed to rapid changes in the ambient temperature. 'Er3' is displayed when the ambient temperature of the # 39642-00 EXCEEDS +32°F OR +122°F. In both cases you should allow plenty of time (minimum 30 minutes) for the # 39642-00 to stabilize to the working/room temperature (+32°F to +104°F).



For all other error messages it is necessary to reset the # 39642-00. To reset the # 39642-00, 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.