

Industrial infrared Thermometer AR330

Introduction:

Compact, rugged and easy to use, just aim and push the button, read current surface temperatures in less than a second. Safely measure surface temperatures of hot hazardous or hard to reach objects without contact.

How it works:

Infrared thermometer measures the surface temperature of an object. The unit's optics sense emitted, reflected, and transmitted energy which is collected and focused onto a detector. The unit's electronics translate the information into a temperature reading which is displayed on the unit. For increased ease and accuracy the laser pointer makes aiming even more precise.

Cautions:

Infrared thermometer should be protected for the following:

EMF (electromagnetic fields) from arc welders, induction heaters.

Thermal shock (caused by large or abrupt ambient temperature changes allow 30 minutes for unit to stabilize before use).

Do not leave the unit on or near objects of high temperature.

Warning:

Do not point laser directly at eye or indirectly off reflective surfaces.

1. When taking measurement, point thermometer toward the object to be measured and hold the yellow trigger, the object under test should be larger than the spot size calculated by the field of view diagram.
2. Distance & spot size: As the distance from the object increases, the spot size of the measuring area becomes larger.
3. Field of view: Make sure the target is larger than the unit's spot size. The smaller the target, the closer the measurement distance. When accuracy is critical, make sure the target is at least twice as large as the spot size.
4. Emissivity: Most organic materials and painted or oxidized surfaces have an emissivity of 0.95 (preset in the unit). Inaccurate readings will result from measuring shiny or polished metal surfaces. To compensate, cover the surface to be measured with masking tape or flat black paint. Measure the tape or painted surface when the tape or paint reaches the same temperature as the material underneath.