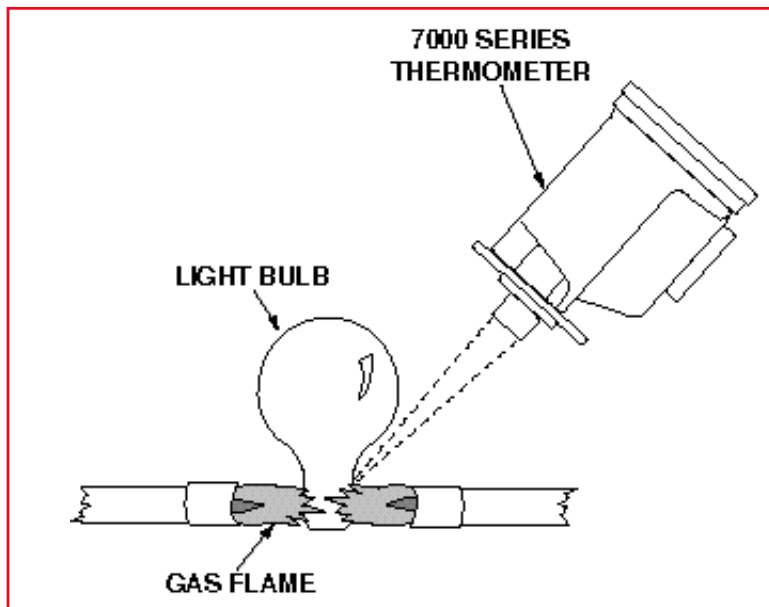


APPLICATION NOTES

AN 104



GLASS SEALING



During the process of manufacturing TV tubes, automobile headlamps and various light bulbs it is necessary to heat the glass in order to bond two parts together or to seal the bulb. The temperature of this process is very critical.

To measure the bond or seal during the heating process Ircon suggests using a 5 micron infrared thermometer. At this wavelength the gas flames used to heat the glass is very transparent. At the same wavelength the glass has a emissivity of 0.98, thus even though the instrument is looking through the gas flame, which is much hotter than the glass, the instrument really only measures infrared energy from the glass not the flame.

Because the targets or areas to be measured are quite small Ircon has a special high resolution infrared thermometer that can see spots as small as 2.5mm at a distance of 255mm. In addition we suggest the use of a feature called a Peak-Picker which allows the instrument to measure the hottest target but not measure the cold empty spaces between the hot targets as they move by the line of sight.

For further information contact Ircon and ask for information on the high resolution 7000 Series Modline. We can be contacted by:

Phone: 847-967-5151
Phone: 800-323-7660 USA and Canada only
Fax: 847-647-0948
Web site: www.ircon.com

IRCON, INC.
7300 North Natchez Ave.
Niles, Illinois 60714 USA

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Phone: (847) 967-5151
Toll Free: (800) 323-7660
Fax: (847) 647-0948
Web site: www.ircon.com

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