

Hermetically Sealed Cell

40 years ago, CdS cells were sealed in a glass to metal welded package. The sole reason for the hermetic seal was to prevent moisture and other environmental corrosives, such as salt, from reacting with the CdS and the deposited metal electrodes. This was a very effective method of sealing the cell, however, the glass to metal encasement, became much too cost prohibitive to produce, eventually yielding to space age plastics and polymers that now do as good a job of preventing a change in atmospheric conditions within the cell enclosure.

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weather conditions) has shown no degregation of the cell surface. Light levels remain accurate with no variance.

True heat dissipation was an additional benefit of the original hermetic package. However, if the cell is used within its power rating, it will function properly for many years.

Today most of our customers now opt for the silicon sensor, which comes in a sealed package. With the trend to electronic photocontrols, all sensors whether silicon or CdS, are suitably sealed to yield 7 to 10 years stable, drift-free life.