

TECHNICAL NOTE # 429

ENVIRONMENTAL PACKAGING for MICROWAVE SENSORS

Southwest Microwave, Inc. microwave intrusion sensors have been in operation worldwide since 1972. Long-term data, collected in every conceivable climate have been used to continuously improve the environmental design of our sensors. For example:

- 1.0 Each microwave component and electronic circuit is designed and manufactured by Southwest Microwave to operate without degradation in temperatures from -40° to + 150°F (-40°C to +65°C). Each intrusion sensor is sample tested over the complete temperature range.
- 2.0 The sensor package consists of an ABS plastic radome, treated to resist ultraviolet radiation and an aluminum baseplate painted with epoxy enamel. Radome screws are stainless steel.
- 3.0 For high humidity or salt spray environments, Model MB65 mounting bracket is available. It is constructed of stainless steel and anodized aluminum. Additionally, a CRP (Corrosion Resistant Package) package is also available for enhanced environmental protection. See Technical Note 465 for more information on the CRP.
- 4.0 The package is sealed against rain, but an air vent has been provided to prevent “pumping” of humid air into the enclosure.
- 5.0 All circuit boards are conformal coated