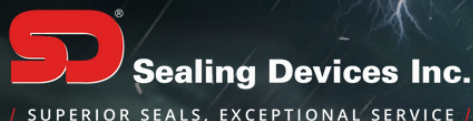


# DESIGNING FOR DURABILITY

*10 Essential Questions for Reliable Electronics in Harsh Environments*



*Together, improving life*

## 1. What are the temperature extremes and how quickly will they change?

Fluctuations cause pressure differentials—it's critical to vent properly.

## 2. Is it in contact or exposed to salt air?

Corrosive environments demand durable materials that stand up long-term.

## 3. Would it be exposed to a rainy or wet environment?

Water ingress is one of the most common failure points.

## 4. Is the enclosure exposed to cleaning chemicals or high-pressure washdowns?

You may need IP69K protection and/or chemical-resistant materials.

## 5. Will it be exposed to a lot of dust or fine particulates?

Choose venting and sealing solutions that block intrusion while breathing.

## 6. How long is it expected to operate?

Don't settle for short-term solutions on long-lifecycle products.

## 7. Do the electronics inside require regular maintenance?

Select mounting types and vent forms that allow for easy service.

## 8. What are the cost considerations?

Balance performance with value by choosing the right vent form – adhesive, snap-in, screw-in or weldable.

## 9. Are there size or installation constraints?

We'll help you choose the best-fit venting and sealing format for tight spaces or complex geometries.

## 10. Are there Ingress Protection (IP) or UL rating requirements?

Ensure the enclosure can meet rating standards with venting in place.

