

What does Enhanced Weather Protection (EWP) mean for you?

Simple: Lower costs and better reliability

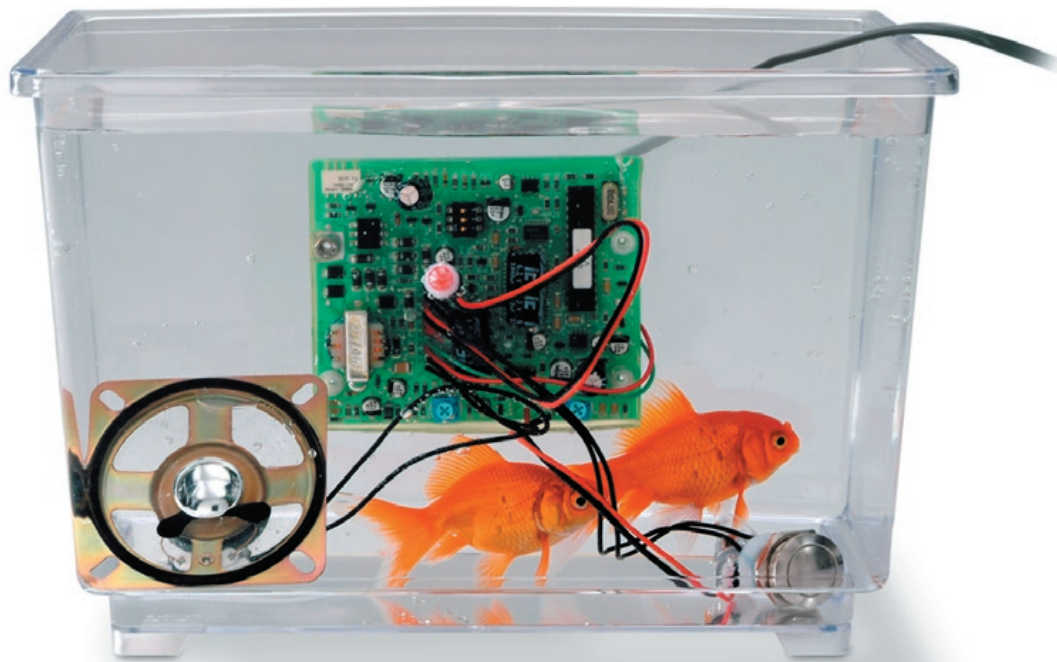
Outdoor emergency phones take a real beating. Besides the freezing cold and scorching heat, they also have to fight off the damaging effects of humidity, corrosion, and critters.

Ordinary spray-on or dip-and-dunk coatings aren't up to the job. Because they're rigid, expansion and contraction cycles cause them to crack and separate from the circuit board. When that happens, they actually wick moisture under the components. Add high heat and freezing conditions and you get corrosion, cracked components and board failures. In other words, once those coatings fail, the phone is history.

Weather protection that's designed in, not added on

Viking uses the latest surface mount technology to build our emergency phones. Surface mount circuit boards require fewer holes and use much smaller components. That makes them far easier to encapsulate in weather protection material.

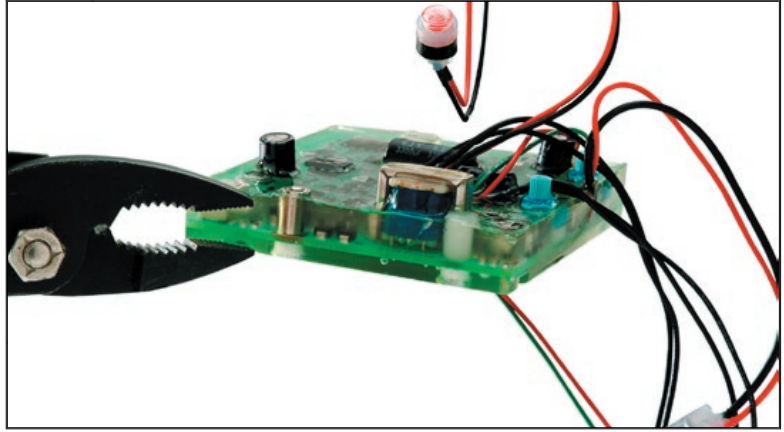
Then we take a totally different approach to weather resistance. Push-on wiring connectors are notorious for harboring corrosion, so we don't use them. Instead, we hand solder all the wired connections. Then, we use internally sealed DIP switches and volume controls that keep moisture out, yet



The water and goldfish are real, and yes, the phone is operating while totally submerged. We don't know how the goldfish managed to push the call button, and it was hard to understand them, but we did get them the emergency help they needed. They're now living happily in our lobby aquarium.

allow you to program the unit and adjust volume in the field. We also give you gel-filled weather-resistant connectors for connecting the phone line. We use a speaker with a mylar cone and a rubber gasket to seal out the elements. The push button switch, microphone, and LED connections are all sealed in non-corrosive electrical grade silicone.

Finally, our entire circuit board is encapsulated in a FLEXIBLE urethane material. The urethane expands and contracts with the components, eliminating cracks and separation, and sealing out moisture.

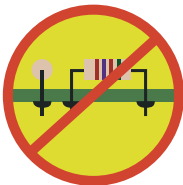


Notice how the entire circuit board is encapsulated in flexible urethane material. It not only protects the individual components on the surface of the board, but also covers the back side of the circuit board as well. The flexible material expands and contracts with the components, eliminating the most common causes of weather related failures.



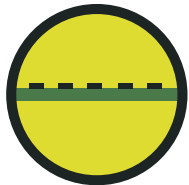
The wiring connections to the weather-resistant call button, LED, and microphone are sealed with non-corrosive silicone. The phone line connections are protected by gel-filled connectors (provided).

EWP Features

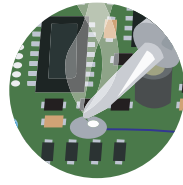


Through the Board

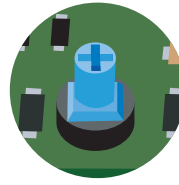
The surface mount design drastically reduces the number of holes in the circuit board and uses much smaller components. That makes them far easier to encapsulate in weather protection material.



Surface Mount

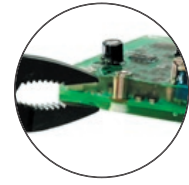


Hand soldered wiring connections eliminate the corrosion problems commonly found with push-on connectors.



Internally sealed DIP switches and volume controls let you program and adjust volume in the field, while keeping contaminants out of critical controls.

We seal the wiring connections at the Call button, microphone, and LED.



Flexible urethane encapsulation protects components and circuit board from the elements while providing for expansion and contraction.

VIKING

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