



## Flexible printed housing eliminates wiring errors

Mesa Technologies selects Phoenix Contact's BC Housing

### Highlights

- An engineering company needed options to save space, provide clear labeling options, and execute fewer wiring errors to customers and manufacturers
- A search led the company to Phoenix Contact's BC Housing products for clear and efficient device usage and printing
- By using Phoenix Contact's BC Housing and other products, Mesa Technologies gained clear labeling options and fewer wiring errors, and saved space

“In our history with Phoenix Contact, we've gotten a lot of products that really met our needs. As we continue to adapt to this evolving market, which is truly in its infancy stage, we look forward to working with Phoenix Contact on better ways to integrate our products and ways to meet our customer needs.”

– Todd Jackson

### Customer profile

Mesa Technologies, located in Houston, Texas, is a research and development company founded on discovering how to apply new technology to existing issues. Mesa Technologies designs can be found on street corners in every major city in the world, in the satellites orbiting Earth, and on ships crawling the ocean floor. Mesa Technologies manufactures complete device assemblies and also has a printed circuit board line.

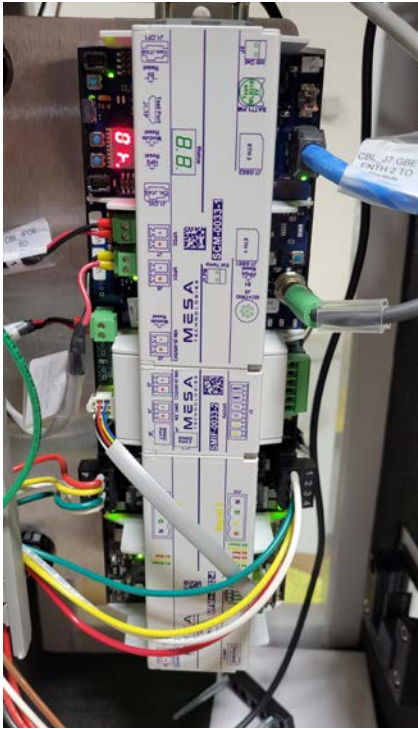
Todd Jackson, product officer, detailed how Mesa Technologies has integrated new technologies into the company. “We are constantly doing new R&D projects and making cameras for municipalities around the world, so we design a lot of new products. We're constantly integrating new technologies, and one of our big claims is we are a U.S. brand. We do all of our design and manufacturing in the U.S., and we manufacture our products for customers around the world. The U.S. brand goes a long way with our customers, and the introduction of artificial intelligence has really helped us separate it. We embraced it three or four years ago and started integrating it into our products.”



**Figure 1:** Todd Jackson, product officer for Mesa Technologies

### Challenge: More components in limited space

Mesa Technologies has a high demand for building more components into its innovative devices, but installation space is often limited. Mesa Technologies' customers also have difficulties wiring in the field, so they needed clear labeling.



**Figure 2:** Phoenix Contact custom prints detailed wiring instructions on the BC Housing, which prevents installation errors.

(Figure 2) This information makes it easier for the end customer to diagnose issues and wire the device properly. Phoenix Contact prints the custom labeling on the housing cover through the Solution Center, providing even more value.

“One of the other big benefits we’ve really enjoyed with the Phoenix Contact enclosure that we mount on our DIN rail is the

### **Solution: Customizable enclosures**

Mesa Technologies has used Phoenix Contact products for years without any failures and is a loyal customer. When designing a new device for monitoring traffic, Mesa Technologies selected a variety of Phoenix Contact products, including three different versions of the BC Housing.

The BC Housing was especially important because Mesa could print very detailed technical information on the housing covers.

printing on top. Historically, you’ll have a schematic on the board, but with the new enclosures, we can work with Phoenix Contact to lay out exactly what every termination is and what the voltage ranges are. All of that is printed right on top of the enclosure. So, when the customer goes to install, or even in manufacturing when we’re setting them up, everybody knows where everything is going,” Todd said.

The numerous industrial components from Phoenix Contact (M12 X-code connectors and cables, COMBICON control and compact products, UNO power supply, circuit breakers, and DIN rail terminal blocks) saved space on the DIN rail, which was also valuable.

Todd explained, “We found the Phoenix Contact power supply to be great for our system for reliability, robustness, and long-term use. It meets our budget to keep our product competitive, it stays up and reliable, we have very few issues with it, and it’s always available.”

By making the product easier to set up, Mesa Technologies hopes to eliminate installation errors.

### **Results**

Mesa Technologies relies on the clear labeling of Phoenix Contact’s enclosures to improve layout and readability for product information and function for customers’ and manufacturers’ ease of use.

Phoenix Contact’s products have given Mesa’s users a well-structured and streamlined product solution to prevent installation errors and save space on the DIN rail.