

Mission Critical Operations Demand Top Performance from Hardware

By: Meghan Rogers

A Two Technologies Case Study

Corrosion is observed in our everyday lives as the rusty bicycle we have in our garage or the old car long past usefulness, but typically people do not spend time worrying about the effects of rust. What we might not consider, however, is the pervasive nature of metal in our lives, from the pipes that deliver water and gas to our homes, to the metal that supports the buildings and skyscrapers in our cities. Without constant maintenance and evaluation, corrosion in these areas and others can evolve into issues that cause great harm to physical structures, people and environments. According to NACE, the National Association of Corrosion Engineers, 300 billion dollars are spent each year controlling the effects of corrosion. Bridges, for instance, can be plagued with stress-corrosion cracking and corrosion-fatigue, two things that directly attributed to the Silver Bridge catastrophe of 1967, an event that caused the destruction of a major transportation route and the deaths of almost 50 people. Because of rust, something the average person might consider a simple nuisance, an every-day trip across a bridge turned both deadly and destructive. Thankfully, people like Al Hilberts dedicate their lives to worrying about this issue so the rest of us don't have to.



As President of M.C. Miller Co. Inc., located in Sebastian, FL, Hilberts' Company has spent over 60 years working diligently to



monitor and control corrosion damage. Al Hilberts has 45 years of real world, working experience in this field. M.C Miller specializes in the manufacturing of equipment and software for use by corrosion professionals in the testing of underground pipelines, bridges, and waterlines; three areas that require constant maintenance in order to ensure safety and efficiency. Using ProActive, software designed by M.C. Miller Co. Inc., corrosion specialists are able to manage and report important information collected while out in the field including: inventories of entire pipelines, specifications of pipelines, even contact information and historic data. What this advanced software required to perform efficiently in the field was a rugged computer with an on board camera and the ability to integrate a high performance digital voltmeter. That's where Two Technologies, Inc. ® entered the scene.

Two Technologies, has been manufacturing hand-held computers since 1987, and has worked with hundreds of companies, each with

THE COMPANY



THE INDUSTRY

Corrosion Detection/
Monitoring

THE CHALLENGES

Integrating a high performance digital voltmeter

THE SOLUTION

Two Technologies' Hydrus® Luna with voltmeter integrated in PACK

THE RESULTS

Rugged, integrated solution for field workers with custom keypad and case graphics

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unique applications and requirements. As mentioned earlier, M.C. Miller's software required the field use of a high performance digital voltmeter. Working closely with M.C. Miller, Two Technologies was able to accommodate the need for

this additional hardware integration within their modular PACK system. This all in one solution fit M.C. Miller's deployment strategy. Joining M.C. Miller's ProActive software to Two Technologies' ultra rugged Hydrus® Luna created an extremely powerful tool for corrosion specialists in the field. With its "super-sunlight" readability, protection from drop, shock, dust, and moisture, 5MP color camera w/ flash and 36 WATT hour, self-monitoring battery system, the Hydrus Luna is a stand out among hand-held computers. "The word 'rugged' is very important to us," states Hilberts. "Our customers use the units in outdoor environments that a person would not believe they go into", he continues, adding that a pipeline survey, for instance, can take place anywhere from wooded areas, farmland, to even in the ocean. Accidental droppings onto hard, unforgiving surfaces or

even into a pool of muddy water, things that could destroy other computers, are not issues with the Hydrus Luna. Only the best of equipment can perform reliably and accurately, especially when dealing with sensitive issues in varied environments. The Hydrus® Luna does not disappoint.

So how does Hilberts feel about the five years his company has worked with Two Technologies? "Our experience (with 2T) has been more than helpful with all

of the people involved," he states, continuing by giving special credit to two people he has worked with extensively, Eric Eckstein, the President and COO, and Laura Witlow, the head of



the customer service department. Hilberts also mentions that corrosion specialists are pleased with the Hydrus® Luna. No matter what environment the Hydrus® Luna is subjected to, it exceeds expectations. When you are dealing with corrosion and the numerous dangers it can present, hardware performance is mission critical.

About M.C. Miller

M. C. Miller has been serving the needs of the Cathodic Protection industry for over 60 years and they continue to expand their impact by developing new, needs-based, products and services, based on our commitment to in-house research and development. The Company, which was founded by the late Melvin C. Miller in 1945, manufactures equipment and software for use by corrosion professionals all over the world. They currently have customers in Australia, Europe, the Middle East, the Far East, South America, Canada as well as the United States. [For more information on M.C. Miller please visit: www.mcmliller.com](http://www.mcmliller.com)

About Two Technologies

Two Technologies Inc. designs and manufactures customizable, rugged hand held computer and terminal products for global applications. With over 4,000 customers and one million products in the field, its devices are deployed worldwide, helping to improve operational efficiency and bottom-line performance. Founded in 1987, Two Technologies continues to be recognized for providing unsurpassed value and service to its VARs and OEM customers. The company has succeeded in leading its market segment by providing high quality, cost-effective, customizable products with industry-best customer service. The company's highly automated manufacturing and test facility in Horsham, Pennsylvania is a model for state-of-the-art, surface mount assembly and is certified to meet ISO 9001:2000 Standards. All standard products from Two Technologies are FCC and CE certified, and RoHS compliant.