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Products

## Zircon Re-Imagines Stud Finding



Ensuring  
Workplace  
Safety:  
Compliance  
with California  
Regulations

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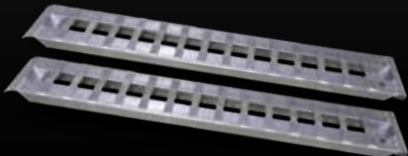


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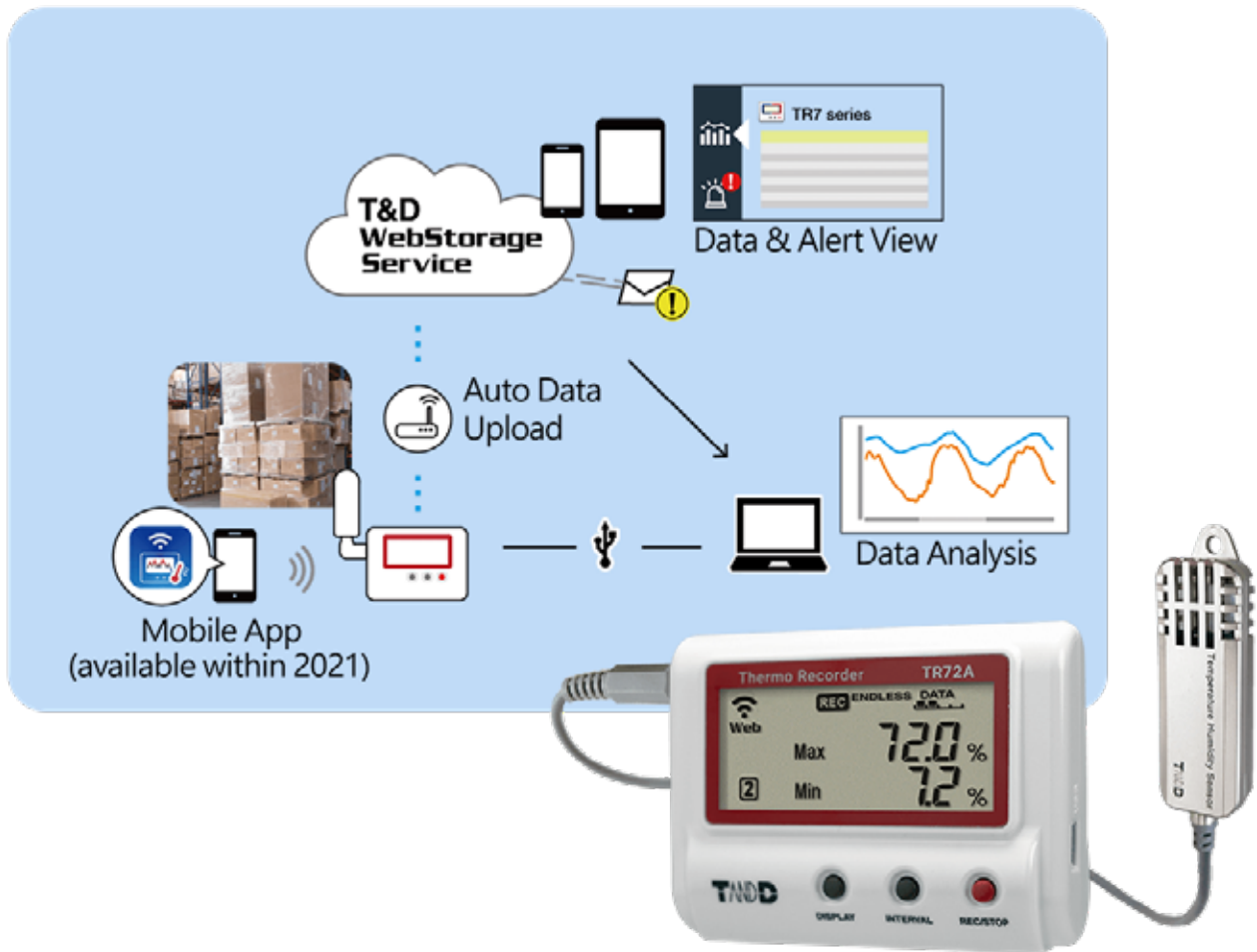


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# Ensuring Workplace Safety: The Role of Data Loggers in Compliance with California Regulations



In workplaces across California, ensuring the health and safety of employees is paramount. This commitment is not just a moral imperative, but a legal requirement under California Code of Regulations Section 3395, which mandates specific measures to protect workers from heat illness. Among these measures is the monitoring of environmental conditions such as temperature and relative humidity, critical factors that can significantly impact employee well-being.

## *Understanding California Code of Regulations Section 3395*

California Code of Regulations Section 3395, titled "Heat Illness Prevention," outlines comprehensive guidelines aimed at preventing heat-related illnesses and fatalities among workers. Enforced by the California Division of Occupational Safety and Health (Cal/OSHA), this regulation applies to outdoor workplaces as well as indoor workplaces where environmental conditions may lead to heat stress.

- Access to water: Employers must provide potable drinking water that is readily accessible to employees.
- Shade Requirements: Adequate shade must be provided and maintained for employees to take cool-down rests.

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- Heat Illness Prevention Plan: Employers are required to develop and implement a written Heat Illness Prevention Plan that includes procedures for monitoring weather conditions and responding to signs of heat illness.

within the workplace. Here's how they contribute:

1. **Continuous Monitoring:** Temperature and humidity data loggers provide real-time monitoring of environmental conditions. This continuous monitoring ensures that employers can promptly identify potential hazards such as excessive heat or humidity levels that may lead to heat stress.
2. **Documentation and Compliance:** Section 3395 requires employers to maintain records of environmental monitoring data. Data loggers automatically record and store temperature and humidity readings at regular intervals, providing accurate documentation for compliance purposes. This documentation is crucial during inspections by Cal/OSHA or other regulatory bodies.

### The Role of Data Loggers In Compliance

Central to compliance with Section 3395 is the use of temperature and relative humidity data loggers. These devices play a crucial role in monitoring and documenting environmental conditions

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3. **Early Warning System:** By setting predefined thresholds, data loggers can alert supervisors or safety personnel when environmental conditions approach dangerous levels. This early warning system enables proactive measures such as scheduling more frequent breaks, adjusting work schedules, or implementing additional cooling measures.

4. **Enhanced Safety Measures:** Armed with precise environmental data from data loggers, employers can implement targeted safety measures to mitigate heat-related risks. This may include adjusting work practices, providing additional training on recognizing heat illness symptoms, or enhancing the availability of shaded areas and drinking water.

### Implementing Effective Heat Illness Prevention

To effectively comply with Section 3395 and ensure workplace safety, employers should consid-

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er the following steps:

- **Selecting Appropriate Data Loggers:** Choose data loggers that are suitable for the specific environmental conditions and work environments in your facility.
- **Training and Education:** Ensure that supervisors and employees are trained in the proper use of data loggers and understand the significance of monitoring temperature and humidity.

- **Regular Maintenance:** Conduct regular calibration and maintenance of data loggers to ensure accuracy and reliability of readings.
- **Integration With Safety Protocols:** Integrate data from loggers into your Heat Illness Prevention Plan, and use it to refine and enhance safety protocols as needed.

#### *Cost - Effective Solutions*

The T&D TR-72A Temperature and Humidity (RH%) data logger provides a simple and effective tool to monitor the temperature and relative humidity in a workspace. The TR-72A is available in Wi-Fi and wired Ethernet connected versions to give you flexibility in data logger placement. The loggers feature an LCD display that allows you to immediately view the temperature and RH%. A key benefit is the ability to send data via a network to the WebStorage Service cloud for remote access to the data, as well as the ability to set alerts, so that management can be notified of conditions that require preventative cool-down rest periods to avoid heat illness.

In conclusion, complying with California Code of Regulations Section 3395 is not just a regulatory obligation, but a crucial step towards safeguarding the health and well-being of employees. Temperature and humidity data loggers are indispensable tools in this effort, providing essential data for proactive heat illness prevention. By investing in these technologies and integrating them into comprehensive safety programs, employers can create safer workplaces and ensure compliance with regulatory standards, ultimately protecting their most valuable asset—their workforce. •



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# Zircon Re-Imagines Stud Finding



*Zircon, the manufacturer of the original stud finder and category creator, is on a mission to re-imagine one of the most popular tools sold in hardware stores.*

Few brands have captured and held a category like Zircon, the manufacturer of the original stud finder. For more than 40 years, Zircon has been the leader and maintains a constant presence on store shelves and online sites, including the largest home improvement retailers in North America. The company continues to innovate and improve its proprietary stud finding technologies, while branching out with other sophisticated electronic handheld tools.

Zircon recently led a years-long research and development project with the goal of making wall mapping easier, redefining the standard for stud finder performance. The company's latest innovation is the SuperScan® ID advanced stud finder. The tool features new One Touch™ technology that can identify wood studs, metal studs, live, unshielded AC wires and low-density objects without having to change modes.

"As a safety professional, you always want your workers to have access to leading edge safety tools that improve safety and focus. Working with **COOLSHIRT SYSTEMS** over the past two years allowed me to help design a tool **by lineman for lineman.**"

The **A.R.C. Hybrid Cooling System** by **COOLSHIRT SYSTEMS** allows linemen to remain more focused and less fatigued by reducing their core body temperature in extreme environments, therefore reducing the possibility of unintended accidents."

**-James "Jim" Bonner**  
Compliance Coordinator- Retired  
Alabama Power



# A.R.C. Hybrid Cooling System

*Complete Arc Rated Portable Cooling Solution*

Developed in conjunction with major power companies for use in extreme heat conditions, the **A.R.C. Hybrid Cooling System** uses liquid cooling to reduce fatigue, injury, and heat stress related illness.

Designed specifically for use by linemen, the **A.R.C. Hybrid Cooling System** features a compact design with a custom woven strap mounting system. The use of S-hooks offers the versatility of mounting inside or outside of the bucket. The system includes our mobile ice based cooler, a 7 hour lithium ion battery with charger and a **CAT 2, 12 CAL** rated Liquid Cooled Vest for **70E Arc Flash** protection.

Designed with portability in mind, measuring **6" x 6" x 20"** and weighing in at **less than 10 lbs dry**, the unit is entirely self-contained and built to last with a 20,000 hour pump.



A.R.C. Hybrid Cooling System  
2002-0017



**COOLSHIRT**<sup>®</sup>  
LIQUID COOLED GARMENTS

Now in its third generation, the new stud finder boasts an intuitive user interface that includes a 4-Color Target ID display, target indicator bars to indicate the center, left edge, and right edge of wood and metal studs, as well as a low battery indicator.

Even with the technology upgrade, the revolutionary SuperScan® ID advanced stud finder remains at an attractive mass market price. With 100% quality assurance testing, 99.9% fill rates, on-time deliveries, and established retail distribution channels, Zircon continues to expand its brand presence in hardware stores, distributors, online, and specialty retailers worldwide.

### ***Tools of the Trade***

The stud finder is one of the best-selling items in the hand tool business.

Zircon dominates the market with an estimated 75%+ of hardware retailers indicating they expect Zircon to be the primary driver of sales in the category, according to a brand analysis published in Home Improvement Executive Magazine.

The popularity of the category is a testament to how vital these tools are for builders, electricians, plumbers, HVACR technicians, tradespeople, professionals, and DIYers. Many of their tasks stem from the need to accurately locate wood studs within walls.

With this in mind, Zircon set out to advance the technology to provide a better representation of what



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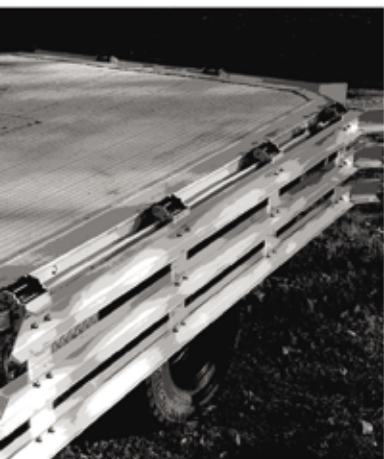


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### Features:

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- Folds down 180°
- Made from heat-treated high carbon steel (pocket section) and 3/16in aluminum (posts)
- Strength tested
- Made in the USA

### Benefits:

- Provides easy insertion, lowering and removing
- Permits easy climb onto flatbed if configured with rails
- Protects and secures tools or transportable items safely
- Adds versatility to most flatbeds

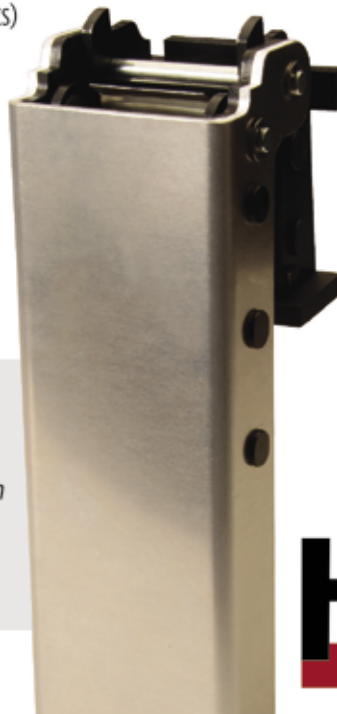
*"Previously I had wooden side gates on my work truck. To remove them, you had to pick them up, set them to one side, and put them back, usually requiring two people — they're heavy! With HingePost, I just fold them down."*

*— Mathew Hughes, Uncle Shuck's Corn Maze  
Dawsonville, Georgia*

Introducing a new chapter in stake-post evolution, rights-holder HingePost has made a dramatic break with traditional designs. The main focus of this newly patented device for flatbeds is its automated locking mechanism and its speed of operation in folding downward 180°. Even its ease of installation and removal from flatbed pockets is notable.

### Necessity: the Mother of Invention

HingePost is based in Dahlonega, Georgia and established in early 2023 by Bobby Anderson. The concept was motivated by the desire to accelerate loading times and, also, to contain the payload safely. HingePost uses aluminum, mild steel, and high carbon steel—all 3/16in thick. **The first of its kind**, this new stake post defines a new direction in combining side gates with flatbed platforms.



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# HINGEPOST®

is behind the wall in a manner easier for users. The Zircon® SuperScan® ID advanced stud finder with One Touch™ technology enables a user to map virtually all objects behind the wall surface, all in a single mode.

One Touch™ technology finds studs and indicates whether they are wood or metal, provides an alert to the presence of low-density objects, objects further behind the wall, and live, unshielded AC wires, without having to change modes.

The new 4-Color Target ID display indicates the object type by color for instant visual recognition, and a haptic vibration and patented SpotLite® pointer shines an arrow-shaped beam on the wall, to clearly indicate the target's location.

A wholly owned subsidiary of ZRCN Inc., Zircon is much more than just a stud finder manufacturer. It is no coincidence that the company was founded and is based in the Silicon Valley of Northern California, the heart of the technology sector. With more than 100 U.S. and foreign patents, the company designs, develops, manufactures, and distributes an extended range of sensor technologies in electronic hand tools including wall scanners, metal detectors, circuit breaker finders, drill guides, water detectors, and leveling tools.

Zircon tools can be found in over 30 countries throughout the Americas, Europe, Asia, and Africa.

For more information, call Zircon Corporation at (408) 963-4550, e-mail: [info@zircon.com](mailto:info@zircon.com), or visit [www.zircon.com](http://www.zircon.com) •



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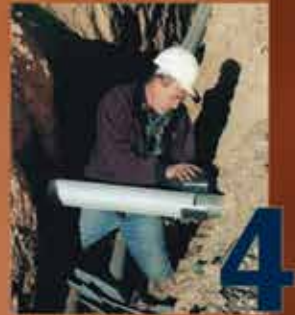
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