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Complete Arc Rated Portable Cooling Solution

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

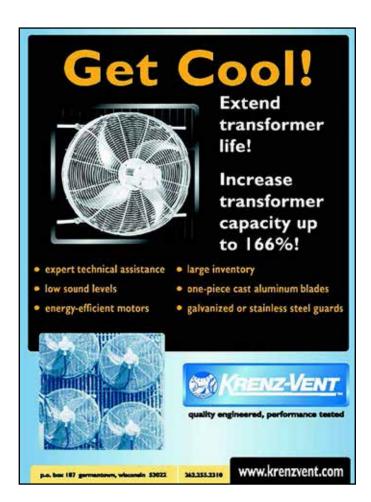


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# H2scan Launches HyView Display to Advance Transformer & Battery Room Hydrogen Safety Solutions

Company expands its hydrogen sensing capabilities for transformer and battery room users with the HyView display product; full solutions include HyView display for use with GRIDSCAN 5000 transformer products and HY-ALERTA 5021 area monitor products



H2scan, a world leader in providing hydrogen sensors for electrical utilities and industrial markets, today launched HyView, an industrialized display to complement its Gen 5 sensor products to meet a broad range of applications.

HyView is a hardened display with the ability to consolidate data from multiple hydrogen sensors. It is available in explosion proof and NEMA® ratings. HyView provides more value to the long life, low maintenance GRIDSCAN 5000 sensor for transformer reliability and HY-ALERTA 5021 sensor for battery room safety. The HyView product is also a powerful tool for industrial process and safety hydrogen sensing applications.

HyView pairs with H2scan's next generation sensing technology to provide local indication of hydrogen and oil temperature data in transformer applications and hydrogen concentration levels in area monitoring applications. The product includes an alarm output, which allows customers to easily wire alarms into their supervisory control and data acquisition (SCADA) systems, data center infrastructure management systems (DCIM), network operations centers (NOC) and other monitoring systems that accept digital outputs. HyView connects with up to four GRIDSCAN 5000 or HY-ALERTA 5021 sensors and allows indication and alarming for real-time monitoring.

HyView includes a dual-line display that can be easily scaled for 4-20 mA analog output values. HyView's wide viewing angle display and through-glass buttons create a simple and convenient user experience. These buttons allow the HyView to be programmed and operated through the front panel, thus eliminating the need to remove the cover in hazardous areas.

#### **Keeping Battery Rooms Safe**

Battery room operations are made safer by the HyView product when combined with H2s-can's HY-ALERTA 5021 hydrogen area monitor. HY-ALERTA meets all code requirements, including continuous monitoring to keep hydrogen below 25% LFL, communications to activate exhaust fans, and Modbus communication to meet annunciation requirements.

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Since 1950, RONK Electrical Industries strives to not only design and manufacture high-quality products for your electrical needs but to also provide you and your customers with vast industry knowledge and unbeatable customer service from our application experts. RONK has a durable and trusted line of products, including our disconnect, transfer and double throw switch products, phase converters, meter socket circuit breaker combination units, generator docking stations, stray voltage isolators, and power factor correction capacitors.

RONK Electrical focuses on electrical components, units, and solutions that can help lower costs, increase efficiency, and stabilize power usage. Be confident, knowing that your equipment is protected instantly, automatically, and reliably with RONK's products. One of the products that helps protect many sensitive locations is our Stray Voltage Isolator, or what we call – the Blocker. The Blocker is a saturable reactor type neutral isolation device designed to reduce the off-site contributions of stray voltage. This unit protects sensitive locations such as swimming pools, poultry farms, and dairy farms.

RONK Electrical works with many different sectors in the electrical industry, to save you time and money. Our Power Factor Correction Capacitor is one of our focused products that does just that. These durable, yet simple units reduce the cost of delivering energy when switched with the motor load by across the line starters. RONK's power factor correction capacitors are a very effective method of correcting low power factor. Don't get stuck with tricky on-site problems or excess utility fees! Call, email or visit our website today!

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### POWER FACTOR CORRECTION CAPACITOR



RONK BLOCKER®

Stray Voltage Isolator

Both the GRIDCAN 5000 and HY-ALERTA 5021 sensors eliminate false positives by detecting only hydrogen. The sensor lifecycle is 10-15 years, avoiding expensive replacement costs. Additionally, the sensor auto-calibrates, reducing maintenance costs.

"The HyView product provides easy access to vital hydrogen monitoring data providing users with the benefit of real-time monitoring without the cumbersome maintenance and expense involved with other technologies," said Jeff Donato, H2scan's Director of Safety, Power Storage Systems.

User-Friendly Solution for Transformer Hydrogen Monitoring Combined with the GRIDSCAN 5000, HyView provides real-time health information on transformers in a reliable, user-friendly, and low-cost package, when compared to other online monitors.

Hydrogen-only sensing provides users with the ability to understand when their transformers have a potentially significant fault that is causing an increase in gassing. By following up with a manual dissolved gas analysis (DGA) sample, users can then diagnose transformer issues and make timely, data-driven operational decisions, often eliminating transformer failure emergencies.

#### **Availability**

The HyView product is currently available. More information can be found on the H2scan website at **www.h2scan.com/product/hyview** •





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Ronk Electrical Industries strives every day to not only design and manufacture high quality products for your electrical needs but to also provide you and your customers with vast industry knowledge and unbeatable customer service from our reliable experts. Ronk Electrical has a durable and trusted line of products, including but not limited to our various switch products, phase converting products, meter socket circuit breakers, generator docking stations, stray voltage isolators, and power factor correction capacitors.

When a utility is charging for a low power factor, turn to Ronk's trusted power factor correction capacitors for a proven and easy way to save money. These durable, yet simple units essentially reduce the cost of delivering energy, when switched with the motor load by across the line starters. Ronk's power factor correction capacitors are a very effective method of correcting low power factor. These units are available in ratings from ½ KVAR-26 KVAR at 240 Vac, and in 1 KVAR-75 KVAR at 480 Vac.

Ronk's stray voltage isolator, better known as the Blocker®, is a saturable reactor type neutral isolation device designed to reduce the off-site contributions of stray voltage. This effective and economical unit is used in place of the bonding

strap between the primary and secondary neutral. Protecting sensitive locations such as swimming pools, poultry farms, and dairy farms, the Blocker® has a high resistance at lower voltage levels to keep primary side stray volt-



age off the secondary side. Above its saturation voltage (11/22 V), its resistance drops dramatically to less than 1 ohm, behaving like the bonding stray it replaces. This unit is available in two various models, SVI-50 11V and SVI-50 22V.

Nobody wants to have money or time wasted at their facility. Products such as Ronk's Power Factor Correction Capacitors and Stray Voltage Isolators keep on site problems such as stray voltage and high costs to deliver energy down to a minimum. Rely on Ronk to provide all solutions for your electrical product needs.









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#### MAIN PRODUCTS

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#### HG-SL-150W

Replaces 150 22500 320/400W Watts Lumens Metal Halide

#### HG-SL-200W

Replaces 200 30000 400/750W Watts Lumens Metal Halide



#### HG-SL-300W

Replaces 300 45000 750/1000W Watts Lumens Metal Halide

#### LED HIGH BAY LIGHT FH7



#### HG-H07-100W

Replaces 100 16000 250/320W Watts Lumens Metal Halide



#### HG-H07-150W

Replaces 150 24000 320/400W Watts Lumens Metal Halide

#### HG-H07-200W

Replaces 200 32000 400/750W Watts Lumens Metal Halide

#### FOOD GRADE LIGHTING FH6



#### HG-HL06-200W

Replaces 200 28000 320/400W Watts Lumens Metal Halide

#### LINEAR HIGH BAY LIGHT FLL3



#### HG-LL-160W(1\*2)

Replaces 160\* 24000 150/320W Watts Lumens Metal Halide



#### HG-LL-320W(1\*4)

Replaces 320\* 38400 320/750W Watts Lumens Metal Halide

\*160W: Options 96W/128W/160W 320W: Options 192W/256W/320W

#### LED BACK-LIT PANEL LIGHT FP1

SELECT



#### FU-GRUL40W(2\*2)

40\* 5400 Replaces Watts Lumens 2\*F32T8



Watts 3\*F32T8 Lumens \*40W: Options 30W/36W/40W

50W: Options 30W/40W/50W





























# Redefine roadway performance

#### Introducing the RoadMax RX2

Evluma's next generation roadway luminaires deliver uncompromising performance and industry leading glare control. Because essential roads deserve exceptional light.



Disability Glare (aka Blinding Glare) is glare that reduces visual performance and visibility – the last thing you want on the road.



RoadMax provides superior roadway performance while meeting all RP-8-21 metrics for Uniformity and Veiling Luminance Ratio.

Visit evluma.com to download our new white paper
LED Streetlight Glare: Causes & Solutions.
Contact us about a mini-pilot program to try RoadMax for yourself: sales@evluma.

Road Max



# Evluma's New LED Roadway Luminaire, RoadMax RX2, replaces 150-400W HID Cobraheads

An ounce of prevention is worth a pound of cure CRITTER
GUARD Line Guard | Pole Guard | BirdBloc Learn More at CritterGuard.org

Evluma expands their roadway product line with a new low-glare luminaire, the RoadMax RX2. With a lumen output up to 28,000 lumens, the LED RX2 is positioned to assist municipalities and utilities retire inefficient and maintenance-intensive legacy HID cobraheads.

March 7, 2020. Renton, WA...Evluma announces the next major release in the RoadMax roadway luminaire line, the RX2. Positioned to replace 150-400W HID cobraheads, the RX2 sits between the lower-wattage RX1, released in 2022, and the forthcoming high-wattage RX3 in size.

Ranging from 8,000 to 28,000 lumens, the 70-220 watt RX2 will satisfy rigorous streetlight requirements while slashing energy use in half. "The versatility of this one offering reduces the number of SKUs a roadway lighting program might have to stock. It simplifies things," stated Senior Product Manager Jason Dobbs." Multiple luminaire configurations for Type II, Type III and Type V, all with zero-uplight (U0), are offered. "The RoadMax product line now replaces any HID

cobrahead up to 400 watts with just two housing sizes. Consistent product design across models also provides aesthetic continuity."

Like the RX1, the precision primary optics are designed to address Disability Glare while achieving maximum pole spacing. The RX2 is also equipped with optional secondary lenses for enhanced glare control; light trespass shields offer spill light curtailment. Evluma recently authored a white paper on LED Streetlight Glare, Causes and Solutions (link). "Reducing brightness and installing a secondary lens are two ways to combat Disability Glare. With an FAO (Field Adjustable Output) and secondary lens options, RoadMax offers both," stated National Sales Director Chris Lubeck.

RoadMax can be customized to include Evluma's Photocontrol Failsafe, a patented technology that solves photocontrol failures on street and area lights. Compatibility with ConnectLED, Evluma's Bluetooth app for wireless lighting controls, enables dimming and dimming schedules without the need for a network. Evluma's comprehensive 10-year warranty and signature 20kV/10kA surge protection comes standard with every model.

#### About Evluma

Formed in 2008, Evluma is committed to developing affordable, long-lasting and environmentally low-impact LED lighting solutions that fundamentally change the landscape of the outdoor utility lighting market. Evluma's high standard of customer service plus its background in innovative lighting technologies and software creatively influences the design of its utility-grade products. Evluma is located in Renton, WA, USA.







Effective Jan. 1, 2023, NEC 230.46 Requires Wire Connectors Used for Splicing or Tapping Conductors on the Line Side of the Service to be Tested as Suitable for This Use

NSI Industries, LLC, a leading provider of electrical, HVAC, and building technology product solutions for more than 45 years, is proud to announce that it is the first company to be NEC 230.46 Compliant, with a number of Polaris® UL listed connectors adhering to this new requirement.

"Effective Jan. 1, 2023, NEC 230.46 requires wire connectors used for splicing or tapping conductors on the line side of the service to be tested as suitable for this use," explained Joseph Saganowich, NSI Electrical Division President. "NSI's Polaris pre-insulated connectors are ideally suited for this application and our customers will be pleased to know that we've been actively testing sized 350-750 MCM connectors, which are now compliant with NEC requirements for connectors and devices installed on service conductors. NSI is actively working to qualify all relevant connectors to meet the new NEC 230.46 requirement."

The current compliant 350-750 MCM Polaris connectors from NSI include series PL, PLH, IPL, IPLM, IPLMD, IPLD, IT, ISR, IPLH, IPLDH, IPLMDH, ISRH and ITH. Follow this link that contains an up-to-date list of part numbers that meet NEC 230.46.

The Polaris name signifies more than 30 years of pride in innovation, quality and reliability, with products engineered and manufactured in the USA. Polaris was the original innovator in pre-insulated connectors and has continued to lead the industry with high-quality lines including the customizable Polaris Black, the clear Vision Tap, the submersible Edge and the Grey, for fine-stranded copper wires. Additionally, its wide offering of uninsulated and mechanical connectors match the needs of any job. Polaris, a part of NSI Industries, remains the trusted brand most asked for by name.

For more information on NSI Industries, please visit www. nsiindustries.com.

For more information on Polaris®, please visit https://www.nsiindustries.com/product-brands/polaris/

About Polaris®

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#### About NSI Industries, LLC

NSI's core philosophy is Making Connections. Focused on the electrical, building technology, and HVAC markets, NSI connects distributors to products, services, and technologies by providing a fresh perspective and caring approach that drives smart solutions. The driving force behind a stable of market-leading brands and a large breadth of products, the company's primary job for more than 45 years has been to fulfill the needs of distributors and their customers. By staying grounded in the principles of service and value, NSI continues to deliver high-quality, industry-advancing, and comprehensive product solutions that enable growth.

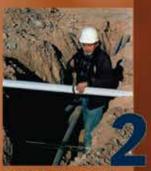
NSI has many well-respected brands, including Bridgeport Fittings®, Polaris® Power Connectors, TORK®Timers and Controls, WarriorWrap® Professional Tape, TERMINATOR™ Premium Wire Connectors, RHINO Safety™, Platinum Tools®, TechLogix Networx, Duro Dyne® Sheet Metal Accessories, Metallics™ Fasteners, Remke Industries, and Lynn Electronics. For additional information about NSI Industries and our family of brands, visit www.nsiindustries.com.

www.nsiindustries.com/product-brands/polaris/





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Step 3: Snap in



Step 4: Attach



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#### **5 Tips to Solve Industrial Facility Workstation Space Constraints**

Innovative options for mounting, customization, and true mobility can help to maximize usable space and productivity in cramped facilities

Many industrial manufacturing facilities expand their capacity by retrofitting existing spaces. However, expansion can crowd existing facilities, leaving less room for critical computing platforms and key performance indicator (KPI) visualization displays. Without sufficient control equipment, current processes can be challenged to meet critical quality standards and productivity can lag.

Fortunately, a variety of innovative space-saving options are now available that can help industrial facilities make the most effective use of virtually every square inch of usable space for computing and data analytics platforms, including hallways, production areas, and cleanrooms.

Paul Shu of ARISTA Corporation, a leading provider of computing platforms and visualization display products for harsh industrial environments, offers five tips to manufacturers who need to maximize their use of space within constrained facilities.

The company's broad array of ruggedized products includes standard and custom solutions like thin clients, panel PCs, ruggedized touch displays, keyboard, video monitor, and mouse (KVM) solutions, as well as mobile and operator workstations.

Tip 1 –Increase flexibility with a pendant arm mount
When industrial operator workstations are required within tight
confines, highly flexible stainless steel pendant arm designs can save
a significant amount of space, according to Shu. With this option, the
screen and connected keyboard are suspended by a pendant arm that
is mounted to the wall. When needed, the user can extend, rotate,
and swivel the workstation into the ideal position. When data entry is
completed, the workstation can be pushed back against the wall, out of
the way.

"Today, space efficient, pendant arm, 360° double-joint [single-screen] and triple-joint [dual-screen] designs make wall flush installation, folding, and workstation retraction easy tasks. The angle of the screen or keyboard in some models can be adjusted to accommodate operators' various heights and specific requirements. This enables comfortable workstation operation over an extended period," says Shu.

*Tip 2 – Take advantage of wall-recessed workstations in hallways*When installing workstations in hallways or other space constrained



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areas, wall-recessed units are the perfect solution. According to Shu, 15, 17, 19, and 21.5-inch touchscreen displays can be fully recessed into a wall to allow greater clearance. There is even an option for a 55-inch large-format 4K display workstation with Quad View display so operators can visualize KPIs and take full control of the production data.

"Recessed workstation mounts should be utilized when hallways are employed for operational control while allowing maximum walking space," says Shu.

The pendant arm can be utilized for a keyboard in hall-ways.

For use in tighter spaces, the company offers a wall-mount option, in which a hinged keyboard support stand with a sliding brace releases from the wall. It folds back virtually level with the wall when not in use. A lockable utility tray that extends from the keyboard stand also enables the use of a full-size computer mouse and pad (viewable at https://www.youtube.com/watch?v=ZPBaC7AcUjw&t=16s).

Shu advises that a fanless cooling design should be implemented in wall-recessed models to ensure that the workstations operate stably and reliably. The compact design does not utilize bulky fans yet lowers the system's operating temperature.

Tip 3 – Install wall, pedestal, or ceiling mounts to suit specific space requirements

Depending on the available space, wall, pedestal, and ceiling mounts can all play a role in better utilizing certain manufacturing facility configurations. Shu notes that wall mounts come in several types and configurations, including fixed and adjustable height.

Computing systems can be mounted to walls using a VESA Mounting Interface. With a floor-mounted pedestal mount, the workstation is situated on a compact platform supported by a stainless-steel column that occupies very little space. Ceiling mounts, as the name suggests, support the workstation and monitor from above, leaving the floor fully open for storage, production, or other uses.

Tip 4 – Take Advantage of Mobile Workstations in Any Available Space

Mobile workstations are increasingly popular in industrial manufacturing environments since the units can be used where needed and then moved out of the way. In addition, mobile workstations enable rapid and easy reorganization of the work environment and process flow for more flexible management.

"One mobile workstation can replace multiple fixed workstations, and there are no installation costs. Wireless connections allow for direct communication with manufacturing execution systems, electronic batch records (EBR), SOP, ERP, and other back-end systems," says Shu.

To be truly mobile, ARISTA designed a wireless, portable system that operates on a heavy-duty lithium battery that allows the workstation to function seamlessly and uninterruptedly while in motion. The battery can last for several shifts before requiring a recharge, enabling full non-stop mobile operation over a 24-hour period.

Wi-Fi capability is built into the workstations to allow for uninterrupted wireless communication in all corners of the factory or laboratory. In addition, most advanced industrial manufacturing facilities today have Wi-Fi-based system backbones connected to legacy subsystems, meaning the workstation can communicate directly with the facility's server.

"With no cables to be disconnected, managed, and reconnected, and with no break in any live or critical connections to re-establish, manufacturers can save time and significantly increase productivity," says Shu.

The portable systems are completely enclosed and therefore fully compliant from a regulatory standpoint, which is essential for sensitive production environments. Eliminating the wires means removing integrity compromises and contamination caused by connecting and reconnecting systems to move the workstation. Each unit can do everything a stationary system can do while remaining mobile, which reduces both infrastructure cost and deployment complexity over a desk-based system.

Tip 5 – Custom Solutions When All Else Fails

When standard catalogue options are insufficient, custom solutions can be required to fit into tight spaces or hall-



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ways. To do this, the equipment must often be customized as to the size, inputs, communication connections, mounting, battery types, and other factors.

Although the leading process automation equipment providers offer computing solutions, the options are limited. In addition, they are not typically flexible enough to provide custom computing system component solutions since this is not their core competency.

"Most providers offer basic monitors and workstations, but if there are specific space constraints or other design changes, they are not able to create new solutions or make minor changes to existing products," says Shu.

In contrast, ARISTA has serviced industrial manufacturers for more than ten years and developed a broad range of products during this time. The company has a strong track record and capability to customize products to meet necessary process specifications.

"If there are unique requirements due to space con-

straints, we meet with the manufacturer to fully understand the situation and design a solution," says Shu. "In six to eight months, we can deliver the first articles for approval, and begin production of the equipment."

For more information, contact ARISTA Corporation at (510) 226-1800, e-mail sales@goarista.com, or write to 48460 Lakeview Blvd., Fremont, CA 94538.



By Del Williams



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#### Repair

With shops on both coasts Maddox inspects, tests, and repairs transformers to ensure that they are in top working condition.

#### Rent

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