

Today's

December 2013

Industrial Products & Solutions™

The Complete Purchasing Guide for Today's Industrial Market

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Volume 11 • Issue 12

Q & A:

10 Factors to Consider When
Buying a Temperature Data
Logger

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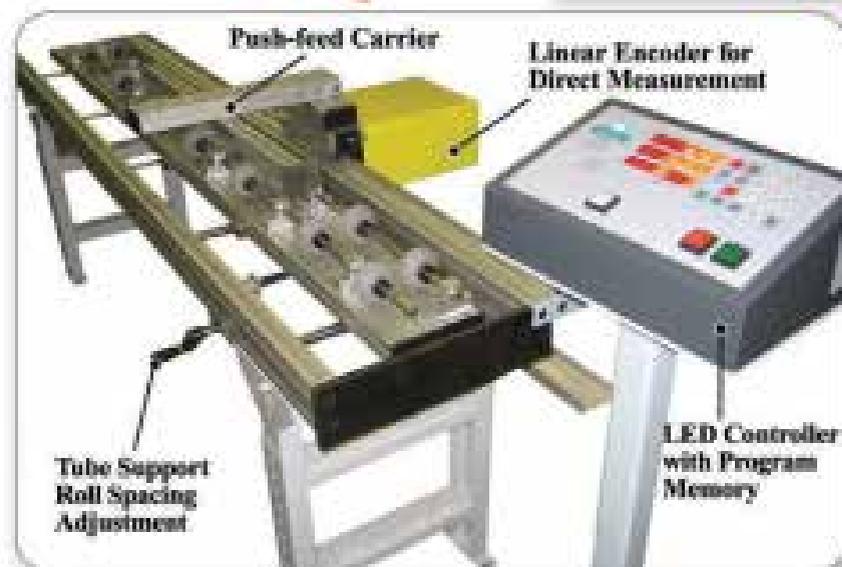


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4

EPLAN Fluid and Harness proD added to
Rockwell Automation's Encompass Products

6

Q&A: 10 Factors to Consider When Buying a
Temperature Data Logger

12

Larson Electronics Releases New Paint Booth
Approved Fluorescent Fixture

16

Trojan Battery Ships New 2-Volt Industrial Line
Batteries

20

RSA-12A Remote Switch Actuator Operates All
DS-DSL Circuit Breakers without Modification

22

Complete Grain Dust Safety with Ruwac's
Explosion Proof Vacuum and Cyclone Separation
System

24

Tool coding using Industrial RFID

26

Vacuum Pump Inlet Trap Protects Central
Source Vacuum Systems

28

Ad Index



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Rockwell Automation has added EPLAN's Fluid and Harness proD to their approved Encompass products. These products now join EPLAN's other approved Encompass products Electric P8, Pro Panel and PPE completing our Platform. EPLAN Software & Services has been a Global Encompass Partner since 2008. Rockwell Automation's Encompass Products have to meet high quality and functionality criteria such as being developed by a reputable and sound company, that is committed to product and services quality, also committed to partnering with Rockwell Automation, and providing useful functionality not delivered by any of Rockwell's current products.

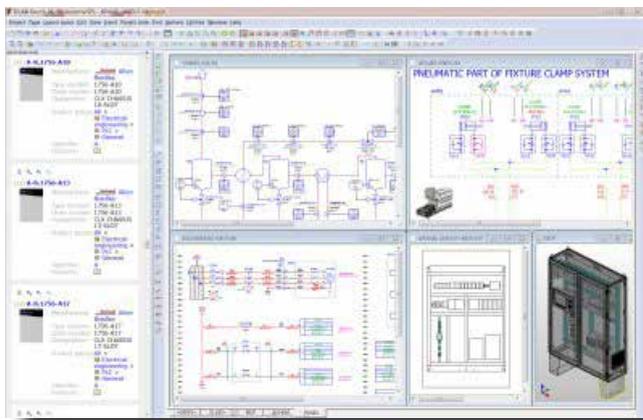
EPLAN Fluid is an engineering tool for design and automatic documentation of circuits for fluid power systems in hydraulics, pneumatics, cooling and lubrication. The EPLAN Platform connects the fluid power engineering with all other engineering disciplines so that various engineering tasks can be executed in parallel and the entire engineering process is accelerated. EPLAN Harness proD is a modern 3D/2D software system for the efficient design and documentation of

cable harnesses. This system's strengths lie in the automated steps involved, from importing mechanical models as 3D environment for harness layout and combining it with wiring lists from the EPLAN Platform to routing the cables and finally generating the engineering documentation and manufacturing 2D nailboard drawings. The ability to take over mechanically relevant information from various MCAD systems and the ECAD connection information means that EPLAN Harness proD has the potential to be seamlessly integrated into PDM environments. This allows for the design of the cable harness even when there is no mechanical prototype available. In brief: development times are reduced, productivity increases and project quality is improved on a continuous basis.

These engineering solutions have been reviewed extensively by Rockwell and they found the synergies between their hardware products and EPLAN Fluid and Harness proD to be a critical piece in their solution partner's success. EPLAN Electric P8 is already an encompass product also based on the EPLAN Platform technology that provides fully integrated

CAD/CAE solutions for efficient, cost-effective design of electrical, fluid power, instrumentation and process control systems, and enclosures in 3D. Now their partners can create their electrical designs through the powerful database centric, object-orientated architecture and then use the bi-directional control data synchronization between Electric P8 and RSLogix™ 5000 and EPLAN Electric P8 via RSLogix™ Architect to allow the capability for hardware and tag synchronization between both the control system and electrical drawings. From this point, they will now benefit by using EPLAN Pro Panel to virtually design their panel layouts with 3D layout planning supported by EPLAN's eTouch technology and can process the engineering data directly to manufacturing. Solution Providers, system integrators, machine and equipment builders (OEM's) and engineering firms will significantly benefit from EPLAN and Rockwell Automation's partnership.

For more information, please contact Christine Knapik at Knapik.c@eplanusa.com.



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Q&A: 10 Factors to Consider When Buying a Temperature Data Logger

CAS DataLoggers Helps You Speed Through the Selection Process

At CAS DataLoggers we talk every day with callers looking for the right data logger for their temperature monitoring application. Often people are new to datalogging and aren't sure which manufacturer or feature to go with. If you're researching based on functionality, price, or specifications, check out these 10 factors to help you find the right logger for your application:

Q:

Which data logger is the best for my industry (food, product testing, etc.)?

A:

Data loggers can measure nearly any physical or electrical value, so they're used in just about every industry you can name. For example, temperature dataloggers are used in food processing, equipment monitoring, medical monitoring, environmental datalogging and more. However we can help you narrow down your search with a few questions about the product, equipment or room you're monitoring and where it's located.

Q:

Which data logger connects to this sensor type?

A:

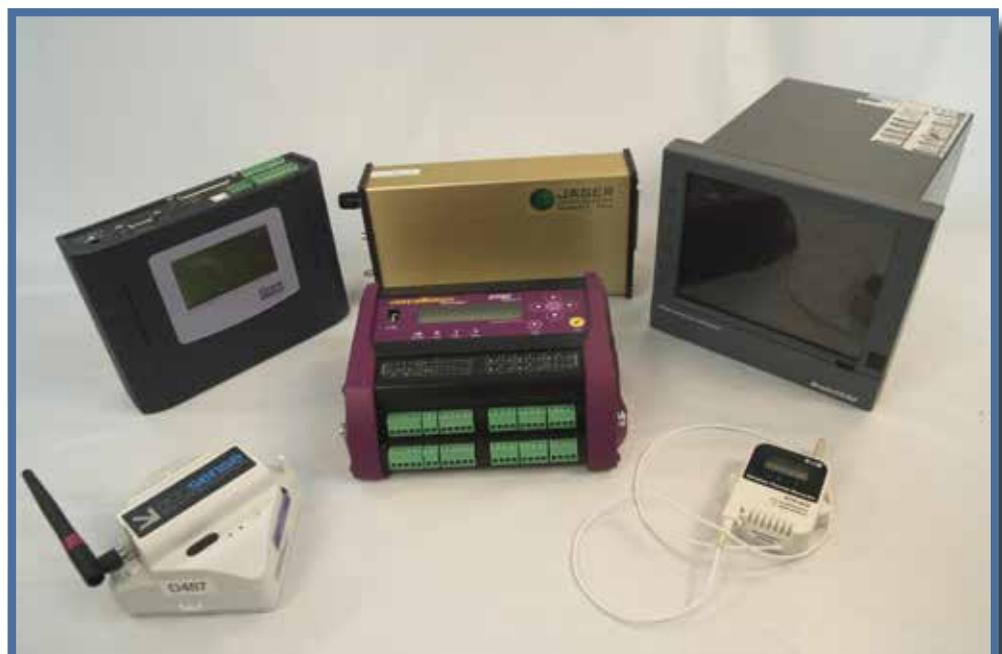
If you know in advance what sensor type you'll be using, this will further help you find what you need. Some specialty data loggers are designed to take data only from thermocouples, significantly lowering your cost, while others connect to a broader range of temperature sensors such as RTDs and thermistors. We also offer dataloggers with their own internal sensors for plug-and-play monitoring.

Q:

How can I achieve compliance with our regulations?

A:

Dataloggers perform continual monitoring, alarming and electronic documentation to aid with compliance and best practices in your industry. We have dataloggers to help you achieve compliance with many common regulations including Accsense data loggers for HIPAA patient privacy, Lascar loggers for CDC medical storage guidelines, T&D dataloggers for ASHRAE guidelines in HVAC applications, and more.



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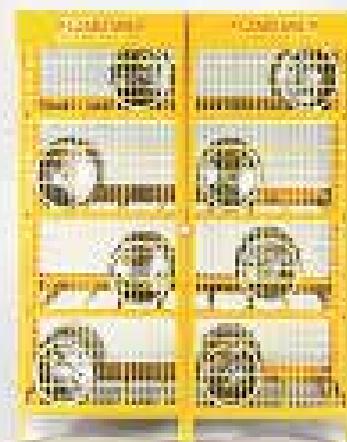
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Q: What can I get for my price range?

A: Data loggers are available from many different manufacturers in a wide variety of models. We offer temperature data loggers from \$20 and up for most applications including cold chain supply, life science monitoring and ambient temperature monitoring.

Q: I don't know what sensor types I'll be using—what covers all the bases?

A: When this is the case, or when you'll be using multiple sensor types, it's often more cost-effective to use a datalogger with universal inputs for connection with many different sensors. We have dataloggers from dataTaker and Grant which can record and store temperature readings from thermocouples, thermistors, RTDs, and many other kinds of sensors.

Q: What'll survive being outside/dropped in water/damage from accidents?

A: That's easy—dataTaker! Our dataTakers have survived falling off of moving trucks, being splattered with pet food in a processing plant, and even travelling into the eye of a tornado! Many of our other manufacturers including T&D, ElectroCorder, and Lascar have devices featuring IP and NEMA-rated protection from liquids and dust.

Q: Which software is the easiest to use?

A: This depends on who will be using the software. For example, you'll want to keep it simple when transporting product, so our ECCS temperature loggers make it easy

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Q: Should I go with a wireless or wired setup?

A: This depends on the network in your facility, your effective wireless ranges, and where the logger will be installed. For a hassle-free solution we also have standalone dataloggers which perform unattended recording completely independent of a PC.

Q: What happens if I run into a problem?

A: You can always call our FREE expert technical support for assistance with setup, configuration and downloading data. Unlike many other distributors we work with these products every day and also provide you with repair and custom programming.

To go into more detail in these and other questions, give our Applications Specialists a call today at (800) 956-4437.

For more information on our wireless and wired temperature data loggers, available for connection with any temperature sensor type, or to find the ideal solution for your application-specific needs, contact a CAS Data Logger Applications Specialist at (800) 956-4437 or visit the website at www.DataLoggerInc.com.

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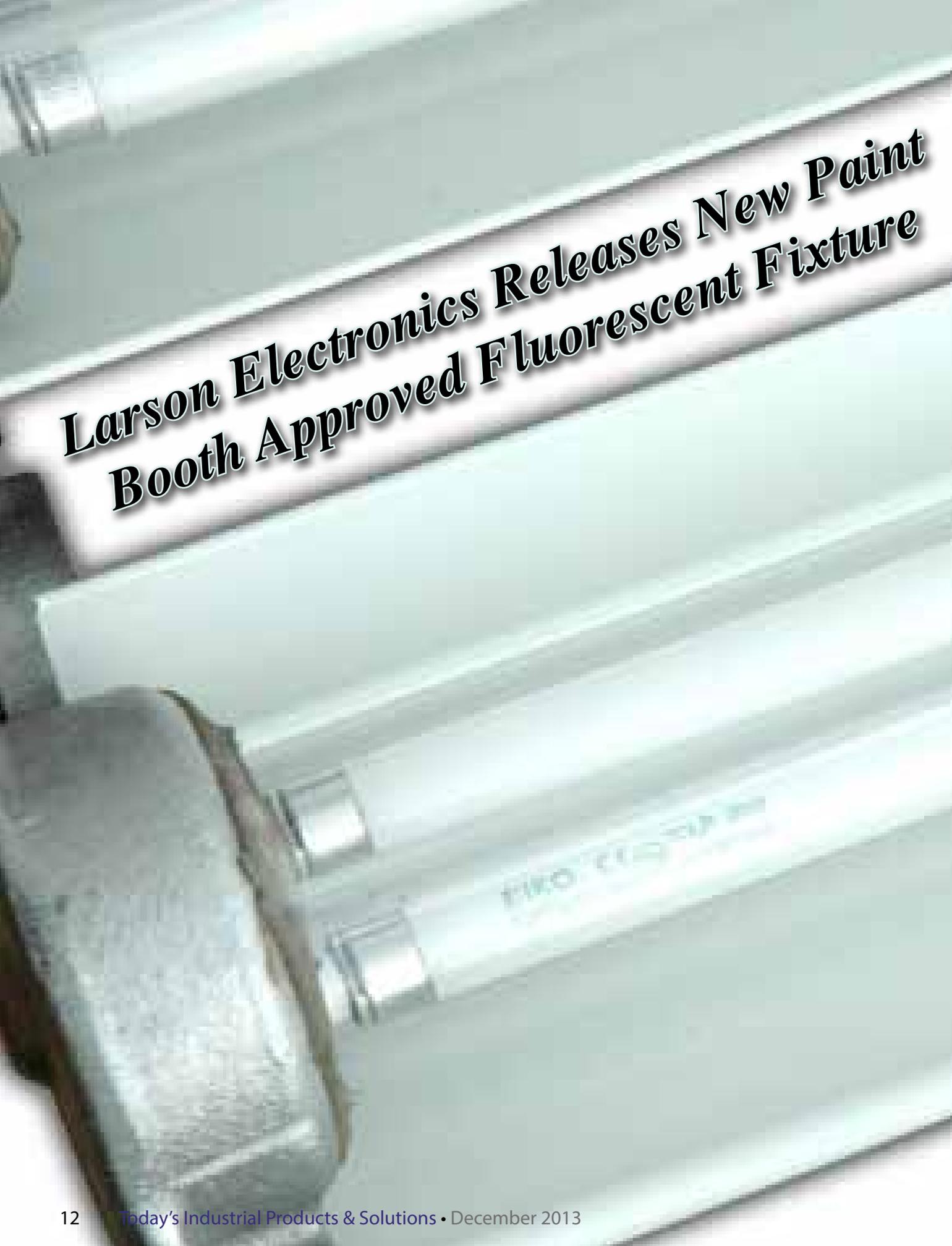


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Larson Electronics Releases New Paint Booth Approved Fluorescent Fixture

Industrial lighting specialists Larson Electronics have announced the release of a new 2 foot long high output explosion proof fluorescent fixture designed for use in areas where flammable vapors and gases may be encountered. The EPL-24-192 Explosion Proof Fluorescent Light Fixture is Class 1 Division 1 approved, paint spray booth approved, and an ideal solution for operators who want high output in a more compact fixture design.



The EPL-24-192 explosion proof fluorescent light fixture from Larson Electronics is a two foot long explosion proof fluorescent light featuring a robust 4 lamp configuration and approval for use in the demanding conditions of paint spray booths. This fixture provides high output and excellent light quality through the inclusion of four F24-T5/HO lamps producing a total of 16,000 lumens with a 5000k color temperature. This light is only two feet long, but by utilizing four T5HO lamps Larson Electronics has produced a fixture providing the power of two lamp 4 foot fixtures in a design

that can be installed in smaller spaces. The fixture is constructed of copper free aluminum for light weight and high strength, and heavy gauge aluminum reflectors with high gloss finishes provide excellent light distribution. Each fluorescent tube is protected by a heat and impact resistant Pyrex tube cover, and screw on end caps provide easier relamping and more secure sealing than standard knock off end caps. Mounting for this explosion proof light is provided by standard end brackets for mounting to flat surfaces, and optional pendant mounts are available for operators who need more clearance between the fixture and mounting surface. This fixture is multi-voltage capable and can be run with 120 to 277 VAC current. Approvals for this high performance fluorescent fixture include Class 1 Division 1 Groups C and D, Class 1 Division 2, Groups A,B,C, and D, and Class 2 Division 1- 2, Groups E,F,G. This light is also 1598 Marine Type and UL 595 Outdoor Marine lighting approved, meaning it can be used in wet and corrosive marine environments as well. This fixture carries a T6

temperature rating and is an ideal solution for operators who want high power illumination in a shorter fixture that takes up less space without compromising performance.

“The EPL-24-192 is the most powerful explosion proof, two foot luminaire on the market today,” said Rob Bresnahan with LarsonElectronics.com. “For customers needing small, but powerful fluorescent light for space constrained, hazardous areas, this eight lamp, two foot fixture fits will exceed the requirements.”

Larson Electronics carries an extensive line of explosion proof lights, intrinsically safe lights, intrinsically safe LED lights, portable work lights and industrial grade LED area lights. You can view Larson Electronics’ entire line of explosion proof lighting by visiting them on the web at Larsonelectronics.com. You can also call 1-800-369-6671 to learn more about all of Larson Electronics’ lighting products or call 1-214-616-6180 for international inquiries.

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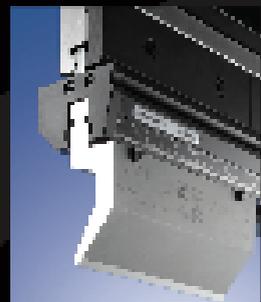
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Trojan Battery Ships New 2-Volt Industrial Line Batteries

New Battery Design Enhances Transport and Installation

Trojan Battery Co., the world's leading manufacturer of deep-cycle batteries, is now shipping its new 2-volt Industrial batteries. The latest deep-cycle battery additions for renewable energy and back-up power applications include two new sizes, and feature a unique design making transport and installation of the batteries easier for a variety of solar applications.

“As installations of off-grid solar applications for applications such as off-grid telecom networks, micro grids, island and rural electrification and backup power increase worldwide, so will the need for reliable, deep-cycle batteries for energy storage,” said Bryan Godber, Trojan executive vice president of renewable energy. “To address this demand, Trojan continues to put its more than 85 years of battery expertise to work developing innovative battery technologies to effectively meet the growing need for reliable access to power around the world.”

The new Industrial batteries include the IND27-2V model featuring a 1457Ah capacity at C20, and the IND33-2V version that offers a 1794 Ah capacity at C20. Trojan also includes a 4/O cable and hardware with each of its Industrial batteries for series connections. These Industrial battery cables provide the link between the batteries, equipment and charging system.

To enhance safety, the new Industrial batteries also feature customizable terminal protectors which increase protection against shock or short circuiting and terminal corrosion. The protectors feature perforated cut-outs along the sides and top enabling them to be customized to fit the specific cable configuration required by customer.

The Industrial line supports large daily loads where the batteries are cycled regularly in a range of photovoltaic systems, including off-grid and unstable grid situations. Specifically designed for deep-cycle use, Trojan's Industrial line is optimized for deep discharge and

recharge cycles characteristic of renewable energy systems. It is engineered for high-energy requirements delivering 1,500 cycles at 80 percent depth-of-discharge, and features advanced battery technologies that provide optimum performance. The Industrial line features the following unique design elements.

Rugged Construction & Intelligent Design

The 2-volt cells of the new Industrial line additions are assembled in a rugged polypropylene housing designed to protect the internal plates from damage that may occur during transport and installation. The cells are enclosed in a larger polyethylene outer case that protects against damage caused by harsh environmental conditions such as moisture and dirt buildup, as well as safeguards against potential acid leaks. For added protection the thick-walled case features a lattice-design that reinforces the outer case's structural integrity. This dual container construction provides added protection against extreme temperatures.

Trojan Advanced Battery Technologies

Engineered for high-energy requirements, the Industrial line features the following advanced battery technologies that provide optimum performance.

Alpha Plus® Paste with T2 Technology™ & DuraGrid™ Design

Trojan's Alpha Plus Paste is a proprietary, high-density paste formulation precisely engineered to deliver outstanding battery performance. This high-density paste optimizes porosity development in the active material utilizing the active material more effectively resulting in sustained battery performance over a longer period of time. Trojan's T2 Technology features a patent-pending T2 metal agent which is incorporated into Trojan's Alpha Plus Paste further strengthening the electrochemical processing capabilities of the paste. Together the Alpha Plus Paste with T2 Technology increase both sustained capacity and total overall ampere-hours resulting in more operating power.

Combined with the innovative Dura-Grid design, which provides a thick grid structure that resists corrosion, the Alpha Plus Paste with T2 technology increases overall battery life. The Industrial line's low-profile grid configuration also optimizes current flow throughout the grid network and maximizes the amount of electrolyte that can be added resulting in longer intervals between watering.

Reinforced Protection Wrap

Trojan's Industrial batteries are engineered with a robust positive plate construction that enhances overall performance. Trojan's DuraGrid technology combined with Alpha Plus paste securely locks the active materials to the grid creating an exceptionally strong positive plate. The Industrial line includes a five component wrapping and insulating system comprised of a stranded vertical slyver, which are filaments of glass wrapped around the positive plate's active mass surface, a 20 mil backing bat and a secondary 20 mil horizontal compression mat. The entire mat is wrapped with edge-protecting Koroseal that is heat bonded as well as bonded to the plastic boot to protect the bottom of the plate and to keep the Koroseal in place. The advanced plate construction protects against shedding and assures the electrochemical performance of the battery's active materials.

Maxguard® XL Separator

Exclusively available in Trojan's Industrial and Premium line batteries is the Maxguard XL separator. Featuring a wide-channel design, the Maxguard XL separator increases acid flow for optimum battery performance. Thirty percent thicker than our standard flooded battery separators, the Maxguard XL provides even greater resistance to stratification which is a typical mode of failure in batteries used in renewable energy systems.

Trojan's Industrial product line is available worldwide. To order Trojan's Industrial line, please visit www.trojanbatteryRE.com/order.



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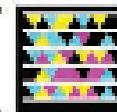
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Peregrine w/ Removable Seat

Product Features:

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Comfort Features: Large thick breathable back and shoulder pads, wide padded waist belt, padded leg straps and padded 2" seat

-Lightweight, yet strong Aluminum connecting buckles

-Removable and Reversible tool belt with tongue buckle attachment

-Adjustable and Detachable seat for comfort during prolonged work at height

-Six D-Rings: Two Fall Arrest- Sternal & Dorsal, Two Positioning - One at each hip, And Two Suspension- One at each thigh

-70 Degree Fall Arrest D-Ring at shoulder for ease of connection

-5 Point Adjustable One at each shoulder, waist belt and leg straps with tongue buckles

-Tool loops for extra gear transporting capability

-Dual Rear Fall Indicators

-Dual Lanyard Pockets for proper storage of unused twin leg energy absorber connector

WildEagle LE Product

Features:

Made in America

Lightweight

Dual Rear Fall Indicators

Comfort Features: Comfort Shoulder Pads,

18" Wide Soft Back Pad, Comfort Leg Straps

-Dual Lanyard Pockets for proper storage of unused twin leg energy absorber connector

-Large comfort D-Ring slider at back

-Removable and Reversible tool belt

-Four steel D-Rings: Fall arrest

connections: Dorsal & Sternal

Positioning Connections: Two

(one at each hip)

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RSA-12A Remote Switch Actuator Operates All DS-DSL Circuit Breakers without Modification

The CBS ArcSafe® RSA-12A is a custom-built remote switch actuator that remotely operates all styles of Westinghouse/Cutler-Hammer DS/DSL power circuit breakers. The RSA-12A is designed to operate on equipment with either manual or electric charging mechanisms and is compatible with all manufacturers and sizes of DS breakers without any modification to the breaker.

When accompanied by an applicable CBS ArcSafe® Remote Switch Operator (RSO) control unit, the RSA-12A provides remote CHARGE, CLOSE, and OPEN operation from up to 300 feet away from the equipment, reducing the need for bulky personal protective

equipment (PPE) and virtually eliminating operator fatigue caused by manually operating the breaker while wearing heavy protective gear.

CBS ArcSafe® remote switch actuators are attached to the enclosure using strong magnets that ship with the unit and are specifically designed for the specific circuit breaker or switch. Each RSA-12A offers adjustable fittings and magnetic latching configurations that allow technicians to adapt to different configurations of the Westinghouse/Cutler-Hammer DS/DSL power circuit breakers without any modifications to the existing breaker or switchgear.

The RSA-12A is lightweight, portable, and ideal for remote operation in hard-to-access areas. Option features for the RSA-12A include a radio remote with range of up to 150 feet, 24VDC LED light, wireless video camera system with LCD monitor for remote viewing, and Pelican case assembly. When combined together, these features make the RSA-12A easy to install and remove, allowing technicians to quickly and safely set up and operate different sets of the same electrical equipment.



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Complete Grain Dust Safety with Ruwac's Explosion Proof Vacuum and Cyclone Separation System

Ruwac will be exhibiting its FRV1400 explosion proof vacuum and HEC-XLT-EX pre-separation system at the 2014 GEAP's EXPO in Omaha, NE. This vacuum is compliant to OSHA's combustible dust initiative CPL-03-00-008, making it a necessity for work environments where materials may pose a hazard. Not only does this continuous duty vacuum remove the risk of a possible explosion, but it keeps your workspace clean and dust-free. Combined with 28 sq. ft. of Ruwac's industry-leading MicroClean filtration that is 99.99% efficient at 0.5 microns with the option to upgrade to HEPA or ULPA filtration, the FRV1400 is virtually maintenance free.

Every one of our electric explosion proof vacuums is certified to Class I, Division 1 & 2, Group D and Class II, Division 1 &

2, Groups F & G requirements for use in hazardous locations and ETL third party certified to UL and CSA standards. Made in the USA, Ruwac's electric explosion proof vacuums are intrinsically safe with all parts and components fully grounded, static dissipating and guaranteed to be spark-free.

Available in 300 CFM, the FRV1400 includes an explosion proof TEFC motor alongside a multi-stage centrifugal, high performance turbine and relief valve rated for 24/7 operation. This vacuum's modular housing is under 8 ft³ in total area, fully grounded and made from a durable carbon impregnated, compression cast composite backed by a lifetime guarantee. Each FRV1400 vacuum features a foot-actuated dustpan for dustless clean-up and Ruwac's industry-leading

MicroClean filtration (with the option to upgrade to HEPA.)

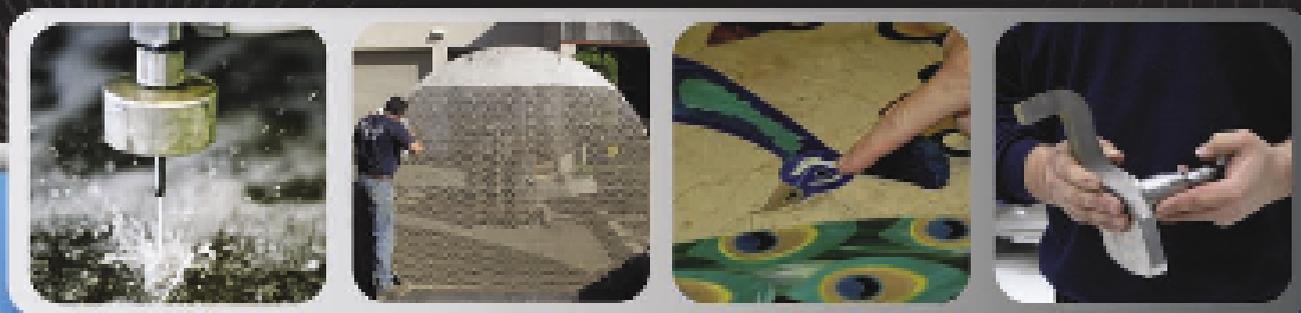
Connecting your FRV1400 to the HEC-XLT-EX will prevent fine dust from prematurely clogging your vacuum cleaner filter. The pre-separation system features Ruwac's 12" high efficiency cyclone and collects up to 97% of fines prior to reaching the filter, reducing downtime and costly filter replacements in the process. A lifting assembly mechanically raises the HEC unit from a drum collector while the drum tips for fast, easy emptying. The system also includes an equalizer kit that allows plastic bags to be inserted inside the drum for hassle-free clean-ups. Forklift pockets provide ultimate mobility while conductive casters provide explosion proof safety.



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Tool coding using Industrial RFID

Tool identification using Balluff Industrial RFID increases efficiency, as it makes incorrect tool allocation or missing tools a thing of the past. All the tool-relevant data are stored without contact on a data carrier embedded in the tool holder. Automatic loading into the system memory means all the data are always correct and up-to-date. Because the data are continuously updated when the tool is loaded and unloaded. In modern production facilities this ensures maximum tool utilization and high machine uptime.

The established basis for tool identification systems is state-of-the-art RFID technology. Balluff identification systems are suitable for industrial use and designed for extreme loads from shock and vibrations and electromagnetic, thermal or chemical effects.

BIS C was the first RFID-based identification solution that ensures reliable data transfer, even in the area surrounding metallic materials. As part of tool management systems, it enables automatic transfer of the tool parameters, which substantially reduces non-productive time at the machine. This does not include the time and personnel savings for provision of tools and equipment and optimal utilization of the tool life. Scrap and rework due to excessive use of tools are virtually eliminated. Additional rationalization effects include easier organization of tools and equipment, greater production assurance and avoidance of errors, for example due to incorrect inputs or mixed-up tools.

The core components of the Balluff identification systems BIS are robust data carriers in miniature design, a read/write head and a processor unit. In complex tool management solutions, they are also used in configuration and measurement devices, where, according to current practice, the first programming of the data carrier with identification and geometric data takes place.

Balluff identification systems are available in a wide variety of versions Experience has shown that the investment pays for itself within a year or two.

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The MV Multi-Trap[®] Vacuum Inlet Trap is designed to protect central source vacuum systems from damage caused by acids, solvents, particulates, water vapor, and other contaminants which can cause vacuum pump failure. Easily customized to meet facility requirements, it has a large knockdown stage to collect heavy solid and condensable contaminants and can incorporate up to six separate stages, each equipped with multiple filter elements.

Providing up to 99.999% efficiency, the MV Multi-Trap[®] Vacuum Inlet Trap helps assure that a CSVS will require less maintenance and operate longer. Suitable for systems up to 2,000 CFM, the replaceable filter elements come in two sizes and include stainless steel and copper gauze, molecular sieve, activated alumina, activated charcoal, Sodorb[®], and pleated polypropylene.

The MV Multi-Trap[®] Vacuum Inlet Trap is priced from \$2,295.00 up, depending upon configuration. Price quotations are available upon request.

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N. American customer testimonials

Steel and Pipe - Brian McRae

"When we compare productivity to the previous plant line we have seen an increase in steel, PIP, and tubing cost saving of 40% over the hydraulic system and rollers to deal with which had always been an issue with a hydraulically driven system. The accuracy and performance of the system has been exactly as we would expect. We ran a W33 x 141 with 68 holes in 12 min. I am ecstatic at the performance of this machine!"



Welder Steel - James Newton

"In 2006 we bought the V6000 robotic spindle drill and saw with fully automatic in-feed and out-feed. The first piece through the machine was a W 140 L 11' and 120 holes were done. In the same year we purchased a V6000 flat bar machine. This year we have just finished a 3600 ton job with zero errors. I'm convinced that without the Voortman equipment this would not be possible!"



Shepard Steel - Chris Ritchie

"We installed our Voortman Saw Roll Line in 2006 as the available technology was so mature and has proven to be extremely reliable. We are looking forward to the arrival of Voortman's latest innovation in our shop next year!"



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Jesco	7	www.jescoonline.com
Jet Edge	23	www.jetedge.com
Johnson Bros	IBC	www.johnsonrollforming.com
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