Alphasource®

RFID

Radio Frequency Identification & Bar Code

Complete RFID, Bar Code & Electronic Database Turnkey Solutions

Your First Source for: FME, RFID, Drop Prevention & Innovative Safety Supplies

Alphasource® Ordering and Information

215.844.6470   **rfidnow@alphasourceintl.com**

Alphasource®
www.RFIDNUCLEAR.com

Real Measurable ROI
Reduce HP Issues: Eliminate error prone, hard to read logs
Instantly Reconcile Logs: Reduce time spent reading logs to find items.
Greater Visibility of Costs: You can't control if you don't measure. Affords the ability to track equipment, tools and personnel by work order, contractor, and time in area, etc.
Reduce man hours spent locating critical assets or equipment needed for jobs
Reduce "Tool Shrinkage": Sites report up to $300K in tool losses per site per outage. Utilizing RFID can significantly reduce these losses and can pay for itself in as little as one outage.
Our RFID systems integrates seamlessly with existing Software Systems such as:
SAP
Oracle
Passport
Barcode
Other 3rd Party Software
Proven Technology, Highest Accuracy and Real, Measurable ROI

Winner of the APICS 2015 Innovation Award of Excellence!

This award was for the design and implementation of a multi-national supply chain RFID solution.
APICS is the premier professional association for supply chain and operations management. The awards were awarded in Las Vegas.
Ask us how to reduce costs, improve accuracy and demonstrate a real ROI for your application.

Below is a partial list of our customer base.

RFID Applications
www.RFIDNUCLEAR.com
for the Power Generation Industry

Alphasource® works closely with Power Generation Professionals to design and deploy RFID solutions that are effective, intuitive and easy to use. Our systems are being used successfully during outages and placed specifically at Tool Cribs, the Warehouse, C-Vans and FME Zones.

Operational Experience (O.E.) gained has been incorporated into the existing programs and plans for future deployments incorporating our TOOLSAVER® Advanced RFID Turnkey Solutions.

Applications at nuclear, power gen and power generation service provider sites include, but are not limited to:

FME ZONES (Turbine Deck, Refuel & Suppression Pools, Drywell)

Tool Cribs

Valve Maintenance

Warehouse

Tracking IT Assets (laptops, external hard drives, jump drives, thumb drives) to help facilities comply with NRC Cyber Security requirements

Work Packages

Armory and Security (Weapons Tracking)

Chemistry

Fire Extinguisher Inspection And Many other Applications

Our TOOLSAVER® RFID Systems reduce man-hours, minimize Human Performance Issues and increase overall performance, decrease dose, and increase operational efficiency.

Alphasource® Toolsaver® RFID System Customer Critique
5/27/2011

The Alphasource® Toolsaver® RFID System's initial use during the Susquehanna LLC, Unit 2 refuel and inspection outage was a success. Our FME monitors found the program and graphics straight forward and simple to use. "It sure beats paper!" was a typical comment. We also experimented with tools by chipping them on our refuel floor and at our suppression pool. Our FME Monitors had no trouble mastering the art of fastening the chips to tools and initializing them in the system. The real time screen monitoring of tools and the availability of several printable forms combined to provide the FME monitors with all the information they needed to control their work site.

This was not only the system's first use in a plant; it was the first use anywhere. Suggestions for improvement and, yes, start up problems kept me busy the first couple weeks. Alphasource and Northern Apex always responded quickly. With the help of our site IT sponsors, we even successfully implemented a revision to the software midway through the outage.

The Alphasource® Toolsaver® RFID System provides an FME Monitor the tools needed to efficiently meet the administrative demands of an FME Zone 1 control point, and it is so user friendly that people can start using it after just a short familiarization. I definitely recommend this tool.

Lance Kittelson

FME Coordinator (retired)

Toolsaver® RFID Systems

Toolsaver® RFID systems are completely customizable and site's specific. Any Toolsaver bundle can be a simple turn key system. Each system can incorporate and interface with existing bar codes and 3rd party software.

RFID System Applications

Tool Cribs

With our system, companies can streamline the process of checking in/checking out tools and the associated paper logs that have been used in the past. The Alphasource, Inc. Toolsaver® RFID System automatically assigns tools to the personnel checking them out and deletes them from his /her file when they are returned. Any tools still outstanding will result in a notification screen alerting the attendant and employee of this. This instant accountability and electronic database means that tools will be returned more often and if they are not, will be more easily located and accounted for. Save time, increase accountability and minimize tool losses. Any items with inspection dates or calibration dates can be easily accommodated and the system will not allow items that are not within date parameters be checked out.

FME Zone

With our Toolsaver® System, FME Zones can now be automated. The software will keep track of everything entering the zone, either by scanning a tagged item, taking a picture of an item or typing in a description of an item. When items are removed, they are marked as being so in the database. Reports or zone status can be brought up any time on the local screen to see what is still inside the zone and what has been removed. The FME Coordinator or Area Manager can check the status remotely from his/her desktop to check on the zones status.

Armory

Our Weapon Tracking System automates the process of armory inventory, weapon check-in/out, test firing and maintenance history of the weapons and tracking the qualifications of the security personnel. The system allows for downloading range results directly to an RFID enabled badge worn by security personnel. If the qualifications are not correct, that officer will not be allowed to check out any weapons needing that particular qualification. Any weapons that are out of date for maintenance or test firing will not be allowed to be checked out of the armory. Tracking weapons sent out for repair or maintenance can also be tracked with our system. Inventory can be quickly and accurately reconciled by simply using a hand held wand and placing it near tagged rifles, pistols and radios.

Fire Hose & Extinguishers

Our system can be utilized to automate the monthly process of fire extinguisher inspection. By using a hand-held device the inspection data can be stored at the extinguisher site as well as being downloaded to a central database for record keeping. Eliminate handwritten logs and be sure that each location has been inspected. Fire hose inspection can easily be a part of this application or its own stand alone application.

Valve Maintenance

Tags attached to the valves in service can be updated with the maintenance history of that valve and can also be stored in a central database. Using a hand held device, that tag can be read at the valve site to determine any service needs based on time and date. Any work done can be noted right there and later downloaded to the central database.

Portal Monitors

The addition of an exit gate array at the exits of the site, will help prevent high priced tools from leaving the site without authorization. Tools like grinders and powerless drills can be tagged and prevented from leaving the facility. "Tool shrinkage" will be minimized and companies will achieve a real ROI based on minimizing tool losses.

Chemistry

Our system can utilize RFID enabled labels that can be attached directly to chemical containers for chemical locker inventory. A quick scan of the locker, using a hand held scanner, before leaving the RCA means the next person going in will know what they need to bring with them without having to enter and exit the RCA multiple times.

iTACT - IT Storage

Our iTACT (IT Asset Control and Tracking) RFID system was designed based on a strict criteria, performing at NRC standards to track and minimize the chances of a cyber security attack or virus infestation.

1) Automatically track asset use and log times, incorporating Work Order information.

2) The system prompts the user to perform a Virus scan on an asset both before use and return of an asset to inventory.

3) If the asset does not pass the virus scans, the system will instruct the user not to use the asset and to contact the appropriate IT personnel and wait for them with further instructions.

4) Keep inventory of the 10 different IT storage areas. Each area has its own unique inventory of assets as they are assigned to a particular storage area.

5) If an asset is returned to the wrong storage area, the system directs the user to the correct storage area for that particular asset.

6) Sortable and customizable reports as needed for administration, record keeping and inspections.

7) Perform without the need for on-site management. User performs all functions.

8) IT managers have the ability to check-in on any or all IT inventory locations from their desktop PC's.

M&TE Storage

M&TE tools and equipment can be tagged and tracked just like the tools in the Tool Crib. Inspection dates and/or calibration dates can be set so that when it is out of range of either date, the system will alert the attendant. The system will not allow the use of outdated equipment until maintenance/inspection/calibration has been performed and the corresponding date has been changed in the system.

FME Zone Hardware

Example of a Typical Zone or Tool Crib Solution:

Northern Apex RG Radiant Wand

When connected to the data reader, can be used to read tagged in hard to reach locations. This custom 900 MHz wand was designed by Northern Apex to give you the best possible results.

Impinj Speedway Revolution

A 900 MHz reader that offers autopilot senses - that automatically configures and adapts to new and changing environments. It is available in both 2 and 4 port versions with EPC global UHF Class 1 Gen 2 / ISO 18000-6C interface protocol.

FME Zone Hardware Connections

Laptop or PC → **to LAN**

RFID Reader

Antenna

Hand Held Units

Tablet

A Windows Based Tablet

Motorola MC 3090

The MC 3090 is a hand held computer used for the commercial space. It is compact and rugged, with a color touch screen. It has Wi-Fi 802.11a/b/g wireless connectivity and an omni-directional MAX RFID Antenna.

Motorola MC 9090

The MC9090 is a rugged, hand held computer that can be used in remote industrial and commercial areas. It is a multi-modal single device supports 1D, 1D ER (extended range, US only) and 2D bar code scanning, RFID (EPC Gen 2) and imaging.

Data Storage

We Recommend that the RFID Database be hosted on a LAN or use our Cloud-Based Data Storage.

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&
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