RFID

Fire Service
Solutions

WHY RFID?

FIRE SERVICE MANAGEMENT

Peoples' lives are counting on the fire service. Having life saving equipment at the right place, time and condition is vital. Every fire truck is filled with hundreds of vital pieces of equipment, making it difficult to keep track of all of them.

What if there was a technology system that would enable you to instantly check the inventory and status of all your equipment? What if technology could help your team keep better track of their assets, while also freeing up time for other vital activities?

THE SOLUTION: RFID

One solution to the challenge of tracking Fire Service equipment is RFID, a technology system that can identify an object using radio waves. The reader transmits a signal to unique tags, which respond with product data. This enables your team to quickly and accurately take an inventory of valuable assets and equipment. Read on to find out more about the power of RFID.

RFID Capabilities:

▸ Read hundreds of tags in seconds
▸ No need for line of sight
▸ Extreme durability
▸ Hold more data such as maintenance information
▸ Read range up to 150 meters
▸ Tags can be rewritten

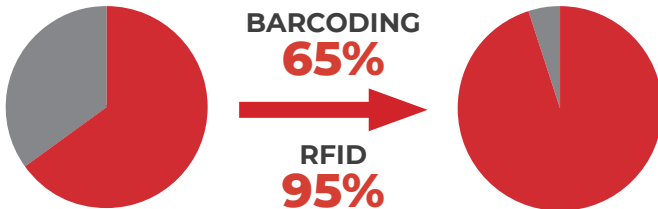| LF : 30 - 300 kHz - Access fobs, animal tracking | HF : 13.56 MHz - ID cards, NFC | UHF : 865-868 MHz - Inventory, asset tracking |

RADIO SPECTRUM

BENEFITS OF RFID

1. Time savings

Time is valuable in the fire service. You want to maximize man-power to best protect the community. Taking inventory, while vital, can consume large chunks of firefighters' time.

This is where RFID comes in. In testing, RFID has been shown to be 25 times faster than Barcoding for taking RFID, counting up to 12,000 items per hour.

2. Inventory accuracy

The cost of missing a vital piece of equipment on site can be devastating. That's why it's crucial to have an accurate inventory for each fire truck. RFID elminates human error and shines when it comes to inventory accuracy, with average inventory accuracy of 95-99%.

BARCODING
65%

RFID
95%

3. Locating items

With thousands of pieces of equipment to keep track of, it's all too easy to misplace pieces of equipment, costing valuable time and money.

There's no need to worry about losing items with RFID. It enables you to quickly locate any item within the range of the reader and return it to its proper place.

HANDHELD READERS

ZEBRA MC3330R READER

▸ Superior speed, comfort and ease of use

▸ Best in class read rate

▸ Android 7.0

▸ 1.5 m drop spec

▸ IP 54 sealing

▸ EPC Class 1 Gen 2; Gen 2V2

▸ Read range: 6 m

ZEBRA RFD8500 SLED

▸ Add UHF RFID reading capability to Zebra mobile devices

▸ Bluetooth 2.1

▸ Memory for 40,000 RFID tags

▸ 1.2 m drop spec

▸ IP 52 sealing

▸ EPC Class 1 Gen 2; Gen 2V2

▸ Read range: 6 m

ZEBRA MC3390R READER

▸ Superior asset and inventory management

▸ Best in class read rate and accuracy

▸ Android 7.0

▸ 1.5 m drop spec

▸ IP 54 sealing

▸ EPC Class 1 Gen 2; Gen 2V2

▸ Read range: 18.2 m

IP SEALING RATINGS

OBJECTS

1 large surfaces
2 fingers or similar
3 tools, thick wires
4 most wires, screws
5 partial dust ingress
6 no dust ingress

LIQUIDS

1 dripping water
2 dripping tilted at 15°
3 spray at up to 60°
4 splashing water
5 6.3 mm water jets
6 12.5 mm water jets
7 immersion up to 1 m
8 immersion beyond 1 m
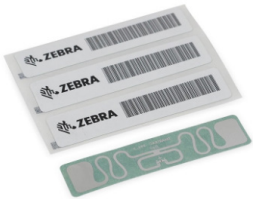
RFID **TAGS**

GENERAL LABELS

- ▶ Standard RFID readers
- ▶ Paper and synthetic materials
- ▶ Used on non-metallic surfaces, plastics and corrugate
- ▶ Used for distribution, shipping and receiving and warehouse operations

SPECIALTY LABELS

- ▶ Specialty situations, such as asset tagging
- ▶ Metal surfaces
- ▶ Liquid-filled containers
- ▶ Asset tracking of tools, fixtures, metal parts, returnable containers, chemical drums and more

ADVANCED LABELS

- ▶ Higher read performance
- ▶ Longer read ranges
- ▶ Retail
- ▶ Healthcare
- ▶ Manufacturing

EPC RFID TAG RATINGS

EPC CLASS 1 GEN 2

- ▶ 40-50 year data retention
- ▶ 100,000 write cycles
- ▶ 256 bit memory
- ▶ 96 bit EPC
- ▶ Some tags have 2,048 bits

EPC GEN 2 V2

- ▶ Anti-counterfeiting
- ▶ Added security
- ▶ Different access privileges
- ▶ Untraceability
- ▶ Loss prevention

SOFTWARE AND SERVICES

BESPOKE SOFTWARE

▸ We design custom software for your unique needs

▸ Already have software that you love? No problem, we can integrate RFID capability into your existing system

▸ Our experienced developers work with Windows CE, Android, desktop computers and more

ONGOING SUPPORT

▸ Training and consultation

▸ Hardware repairs and support

▸ Software updates

▸ Onsite engineers

▸ RFID tags and labels

STARTER KIT

▸ Discussion of your application

▸ MC3330R handheld reader or RFD8500 RFID sled

▸ Selection of tags

▸ Demo application

▸ Proof of concept trial

▸ Contact our team today

TRY RFID TODAY!

TAKE CONTROL OF YOUR ASSETS WITH RFID.

RFID has the potential to reduce stocktaking time while improving accuracy. This gives you a real-time view of your equipment, to reduce losses and make sure you always have the right equipment at the right time.

We believe RFID Asset Management can make a real difference for the Fire Service.

"I'M IN. WHAT'S NEXT?"

Fire services are sometimes hesitant to implement RFID because it can be complicated and you often have to find hardware and software from different companies and piece together a solution.

We solve that by being the one place where you can get everything you need for RFID: readers, antennas, tags, software and more.

Visit tec-rfid.co.uk/fire for more information, or contact our friendly and knowledgeable team to book a demo.

ZEBRA

Since 1969, Zebra has been empowering businesses with enterprise technology.

Zebra is a proven market-leader in RFID, with more fixed, handheld and portal RFID systems installed than any other brand. Zebra is always innovating at the edge, with over 300 current RFID patents.

TEC-ID

At Tec-ID, we are experts in helping businesses implement mobile, barcoding and RFID solutions to streamline their operations.

Our team has decades of experience working with top brands in retail, healthcare and logistics. We offer no-obligation quotations and demos.

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ZEBRA TEC-RFID

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