

Hazmat Storage Cabinet



Haz Trak - RFID Solutions

Intelligent RFID Tracking in a Flame protected cabinet

The RFID Haz Trak storage solution provides a safe storage area for hazardous or flammable materials but tracks everything in the cabinet. Specifically designed for managing expiration of volatile time sensitive chemicals, Haz Trak keeps a real time pulse on expiring material and immediately alerts the operator/supervisor or optionally can lock the cabinet.

Integrated LED for Cabinet Access

A built in LED simplifies the process of knowing if any item has expired in the cabinet showing a green LED if items are safe to use or a red LED to show that something in the cabinet has expired.

Companion Software Informs of Expiration

The highly configurable software application to manage volatile chemicals captures the material, expiration, safety information, handling information, disposal instructions and every time the chemical is in use. Extensive reporting and alerting is provided.

Know Every Time a Chemical is Used

With the optional badge / vision system, access to the cabinet is controlled to capture who is using the cabinet and how long chemicals have been in use and by whom. A complete audit trail of who used the chemicals and their frequency is available with Haz Trak and can be used for compliance purposes.

Proactive Reporting

Haz Trak can alert via text message or email that material needs to be removed / disposed from the cabinet and automatically verifies that it has been removed. A configurable alert can be scheduled to provide an advance warning that a chemical is about to expire to allow supervisory intervention if required.

Industry Standard Enclosure

The Haz Trak solution can be built into any flammable rated cabinet. Venture Research has selected sizes and configurations of off the shelf hazardous and flammable cabinets that are retrofitted with the Haz Trak RFID tracking solution. All cabinets are FM approved meet or exceed N.F.P.A Code 30 Osha Regulations 1910.106. Cabinets are rated for the storage of Class I, II and III Liquids.

24 x 7 x 365 Support

Venture Research maintains a world class support organization that can provide real time monitoring and alerting the of system operability. All products from Venture Research contain automatic alerting and self-diagnosis.

- Hazardous Material Tracking
- Chemical Expiration
- Personnel Access
- Consumption Monitoring

Product Features

Features	Benefits
Continuous monitoring of hazardous materials	Improves safety compliance
Integrated door sensor	Precise recording of transactions
Tri Color LED Integrated	Gives operator feedback directly without the need of a computer or screen
Integral store and forward capability for all transactions	Ready for the Cloud
POE (Power over Ethernet) capable	Reduces cabling and power requirements
Adjustable shelving	Flexible storage capability

Specifications

HAZ Trak - Electrical Specifications

Model	HAZ_RDR_001_XX
RFID Reader	1 Watt (30 dBm) Class 1 GEN2 (ISO 18006c) reader, US (902-928 Mhz) (European ETSI – 865-868 Mhz also frequencies available)
Power	POE or Direct connect at 12V – 1.5 A, Optional Battery Backup
Diagnostic Indicators	Red, Yellow and Green diffuse LEDs for local notification and diagnostics
Stack Light	Programmable Edge LEDs - R,G,B Mixable
RFID Antennas	Exclusive Venture Research Array antennas in a backwall configuration

Interfacing

Connection	Serial, Aux Serial, Ethernet Cat5/6 (RJ45), USB-A, Wifi (802.11 b/g), BLE, CAN Bus, Optional Cellular
Protocol	Simple text based configuration and tag read stream (via Telnet). Online help is built in for all commands. Up to 5 independent simultaneous sessions
Cloud Computing	Store and Forward with all filtering/aggregation being performed in the reader. Direct Web Service update capability using HTTP Post. SD Card storage
Optional Sensors	Biometrics, Card, HF Badge, Camera, Floor mat sensor, motion sensor
I/O	4 In / 8 Out Conditioned
Secure Lock	Optional CAN Bus Secure Lock

Display

Stacklight	R,G,B continuously variable programmable LEDs for operator feedback and custom usage
------------	--

Software/OS

Operating System	Open embedded Linux, Optional Android 4.X
Applications	Expired Product Maintenance, Inventory Tracking, Usage by Personnel, Usage by Item

Mechanical

Dimensions: Small cabinet 35" x 23" x 18" up to Large cabinet 43" x 65" x 18" configurations

Configurations

Base Haz Trak	Part Number
Reader Surface - Base	HAZ_RDR_001_XX

Options

Power	Part Number
Battery Backup	HAZ_RDR-OPT-BATT-PACK
Battery Charger - Single Battery	HAZ_RDR-OPT-BATT-CHRG1
Battery Charger - Quad Battery	HAZ_RDR-OPT-BATT-CHRG4
Spare Battery	HAZ_RDR-OPT-BATT
POE Injector - 48v	HAZ_RDR-OPT-INJECT

Communications

4G LTE Module	HAZ_RDR-OPT-CELL
Carrier Service – 1 Year	HAZ_RDR-OPT-CELL-CARRIER

Sensor

Mat Sensor - 3'x1.5'	VR-MOBL-OPT-PROX
External Input (PIR Motion Sense)	HAZ_RDR-OPT-PIR
Facial Recognition	HAZ_RDR-OPT-FACEREC

Operating System

Open Embedded Linux	HAZ_RDR-OPT_OS-LINUX
Android 4.0	HAZ_RDR-OPT_OS_Android4

Cabling

CANBUS Interconnect Cable 15'	HAZ_RDR-OPT_CAN_15
Serial Interface Cable to USB	HAZ_RDR-OPT-USB-SER

NOTES:

- Cellular requires yearly service contract
- Specify service provider at time of order (AT&T, Verizon, T-Mobile, Sprint)
- Each surface has a CANBUS interface to daisy chain additional surfaces together
- ETSI/EU - 865-868 MHZ Version available at extra cost
- Specify cabinet size at time of order

Warranty

Parts and Labor	1 year, post 1 year maintenance agreement available
-----------------	---