FCC Experimental License Application Information

Company Name:	Tyco Safety Products / Sensormatic
Address:	6600 Congress Ave
City, State, Zip:	Boca Raton, FL 33487
Name and Title, Contact Person:	Mac Elliott
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Email:	melliott@tycoint.com

Company FRN: 0005-0526-26
(if not available, company TIN or EIN:

License type requested

[X] Special temporary authority (STA) - 6 months license term

[ ] Experimental license – 2 or 5 year license term renewable

Description of Experiment or Research

Experiment Start and Stop Dates	**Start: 7/18/05**	**Stop: 2/18/06**

Purpose of experiment/Need for experimental license (detailed narrative)
Sensormatic is developing an RFID reader system for sale exclusively outside the United States, primarily for the EU market. The product operates in the 865-868 MHz band allocated for this purpose in the EU. These frequencies are allocated for public safety communications in the United States. Sensormatic wishes to determine the read range and accuracy of their RFID system and will therefore need to activate the transmitter to power the RFID tags they plan to use with the system

Description of equipment and how it will be used (detailed):

The RFID system consists of a RFID reader and various passive tags that respond to short range interrogation. The system operates dynamically between 865 and 868 MHz. We need three channels to test frequency agile characteristics specified in European Norm EN 302 208.

Frequency Table

866.2875 MHz 866.6875 MHz 867.2875 MHz

These frequencies have been coordinated with the PBSO Region 9 committee

Transmitter Equipment and Station Details

Equipment Manufacturer:	**Sensormatic Electronics Corporation**
Trade or Brand Name:	**Agile 2 Reader**
Power Output range:	**100 mW to 1W**
Model Number:	**IDRDR2866**
Modulation type:	**A1D [200KHz]**

Number of Fixed Units:	**10 optimal / 4 minimal**
Location of Fixed Antennas (Lat., Lon, and Street Address)	**Station 1.** Inside warehouse at 6600 Congress Ave. N 26 degrees 24.287 minutes / W 080 degrees 05.951 minutes **Station 2.**

Number of Mobile Units	
Radius of Mobile Unit location from Fixed station(s) (specify km)	**Mobile 1.** **Mobile 2.**

Coordinate datum: [ ] NAD 27 or [X] NAD 83

TX Frequency Range and Tolerance

Station/Mobile Number	LOW MHz	HIGH MHz	% TOL
S1	**865**	**868**	**20 ppm**
M1			

Transmitter Parameters

Station/Mobile Number	Modulation Type	Emission Designator	Occupied Bandwidth	Power out, dBm
S1	**Amplitude**	**200KA1DAF**	**200kHz**	**1W**
M1				

Antenna Details

Station/Mobile Number	Antenna Model/Type	Gain dBi	Beam Width (H)	Beam Width (V)	HAAT (meters)	AMSL (meters)
S1	**IDANT10CEU25/ CIRCULAR POLARIZED PATCH ANTENNA**	**7**	**57**	**62**	**N/A***	**N/A***
M1						

***Per Form 442 which states:**

5. † Will the antenna extend more than 6 meters above the ground, or if mounted on an existing building, will it extend more than 6 meters above the building, or will the proposed antenna be mounted on an existing structure other than a building? If "YES", give the following: ○ Yes ○ No

(a) Overall height above ground to tip of antenna is _____ meters.

(b) Elevation of ground at antenna site above mean sea level is _____ meters.

Our antennas will not extend more than 6 meters above the ground for this application, so HAAT and AMSL are not applicable.