1 GENERAL INFORMATION

1.1 Product description

The components of the L-SP2 EAS system are contained within the L-SP2 pedestal. At least two pedestals are required for each EAS gate.
The L-SP2 is built in a one frame:

- the electronics unit located on the bottom of the pedestal which manage the whole system

  A L-SP2 Electronics unit is used to control each pedestal. This electronics unit generates the RF signal transmitted by the antennas (power output: 4W) and picks up the reply from the TAGSYS RFID tag. If a TAGSYS RFID tag with an active theft bit (ON) is detected, the electronics unit will activate the alarm of the LED/buzzer board on the pedestal.

- 3 large antennas which radiate the magnetic field to detect a TAGSYS RFID tag

  These antennas are sensitive receivers used to detect the status of the theft bit in the TAGSYS RFID tag as it passes through the EAS gate. The antennas are tuned in the factory at 13.56 MHz.

- a warning visual and audible device (LED/Buzzer board)
- a people counter equipped with an IR sensor having two functionalities:

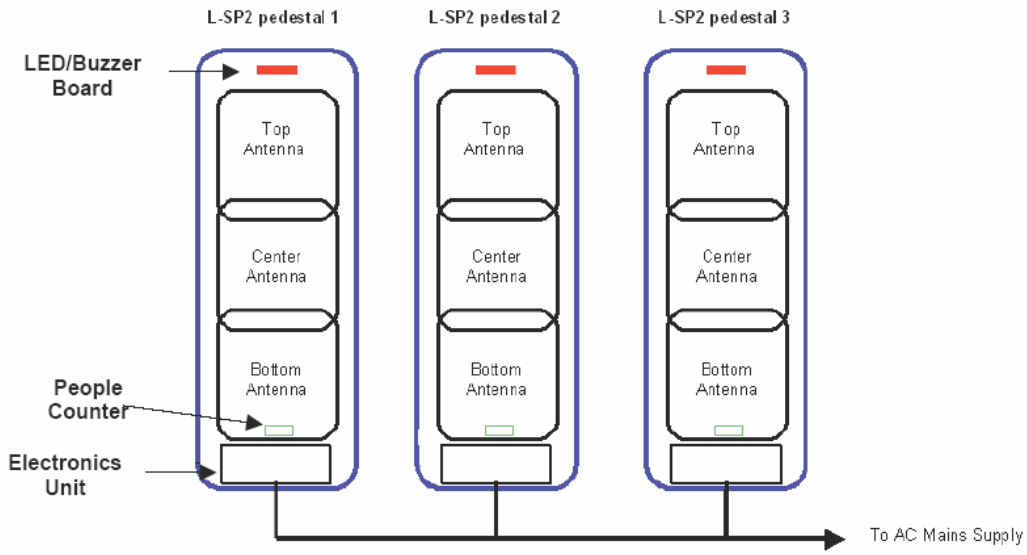
  1. detect crossing people (counter)

  2. to be able to limit the alarm release only if a person is detected (this functionality can be deactivated using the L-SP2 Configuration Utility)

To operate, the L-SP2 will only need a power supply cable.

Note - The equipment is professionally installed, and the operator can't access to the RF coupler. For this application, the typical configuration is two pedestals with each 3 antennas connected on the RF coupler (output power: 4Watts).

Figure 1: L-SP2 Application Overview



The Library Security Pedestal 2 is a product developed by the TAGSYS Company
For more information, see product's data sheet at section 1.6.

1.2 Related Submittal(s) / Grant(s)

All host equipment used in the test configuration are FCC granted, when relevant.

1.3 Tested System Details

The FCC IDs for all equipment, plus description of all cables used in the tested system are:

See test report files.

1.4 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4(2003), CISPR22-1997/A1:2000/A2:2002 and EN55022:1998/A1:2000/A2:2003.

Radiated testing was performed at an antenna to EUT distance of 10 meters. During testing, all equipment's and cables were moved relative to each other in order to identify the worst case set-up.

1.5 Test facility

Tests have been performed on November 30th, December 1st & 10th, 2004.

The test facility used to collect all the radiated and conducted data is the SMEE ***Actions Mesures*** facility, located ZI des Blanchisseries, 38500 VOIRON, France.

This test facility has been fully described in a report and accepted by FCC as compliant with the radiated and AC line conducted test site criteria in ANSI C63.4 in a letter dated July 19, 2002 (registration number 94821).

This test facility has also been accredited by COFRAC (French accreditation authority for European Union test lab accreditation organization) according to NF EN ISO/IEC 17025, accreditation number 1-0844 as compliant with test site criteria and competence in 47 CFR Part 15/ANSI C63.4 and EN55022/CISPR22 norms for 89/336/EEC European EMC Directive application. All pertinent data for this test facility remains unchanged.

1.6 Data sheet of the LSP2 Product

Mechanical Characteristics

Parameter	Value
Weight Pedestal:	34 kg (75 lb)
Pedestal dimensions (H x W x D)	Approx. 1777 mm x 640 mm x 80 mm (70 x 25.2 x 3.15 in) assembled
Connection for pedestal	Supply power cable

Electrical Characteristics

Parameter	Value
Power supply	90/250 Volts AC, 0.5 A, 50/60 Hz
Power consumption	30 W
Conformity	FCC Part 15, CE, EN 60950-1, EN 50364
Microchip compatibility	TAGSYS C220, C320, C270 (Philips I-Code), C370 (Philips SLI)
Operating temperature	0 to 55 °C (32 to 131 °F)
Storage temperature	-20 to 60 °C (-4 to 140 °F)
Fuse	0.5 A T/ 220 V

RF Output Power (50Ω Terminated)

Parameter	P (W)	P (dBm)	V (V_{RMS})	V (V_{PP})
Minimum Burst Power	3.6	35.6	13.4	38
Maximum Burst Power	4	36.0	14.1	40.0