Figure 1:   System overview
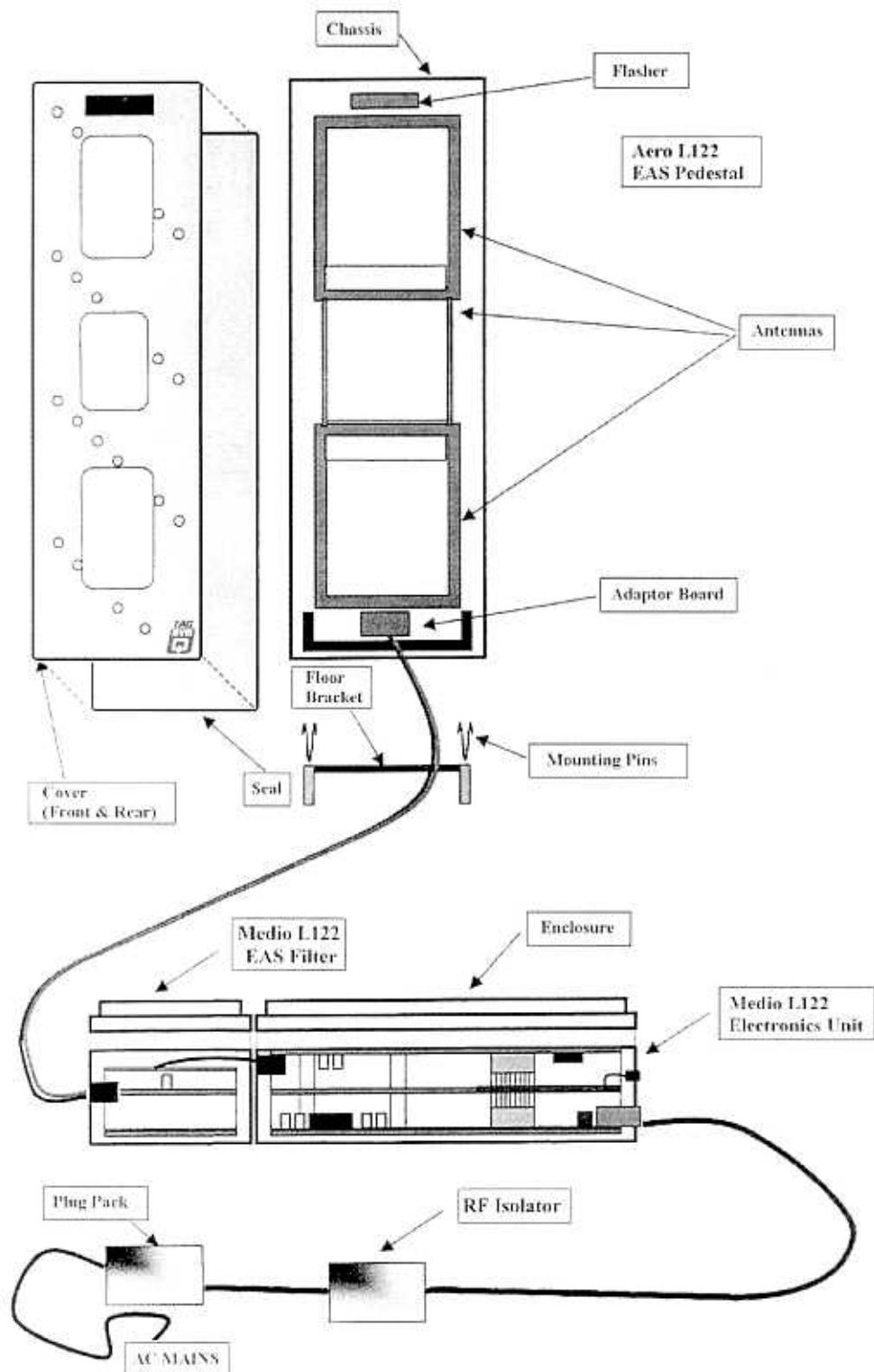
1.3   Smarto L122 EAS system overview

The **Smarto L122** system (see *Figure 1*) consists of:

- *pedestals*—normally two or more between which items pass for theft detection, and which raise an alarm if an item has not been correctly processed

- *smart label*—attached to the item(s) to be checked for theft status, and includes a transponder programmed with information to identify the object to which it is attached, and a tiny antenna etched onto the label substrate

- *Medio L122 electronics unit*—applies radio waves to a pedestal to interrogate smart labels near the pedestal

1.4   Smarto L122 components

The **Smarto L122** components are located in the **Aero L122** pedestal and the **Medio L122** electronics unit.

Pedestal components

Each pedestal acts independently of any others, though it must be synchronised with all other pedestals in the building, and with the phases of the mains power supply, to function correctly. The maximum number of pedestals in close proximity to each other is eight.

Note: If the pedestals are not correctly tuned and synchronised, they may interfere with each other and produce anomalous results.

The set of pedestals at an entrance or exit is termed an EAS gate, and may comprise up to four pedestals. A pair of pedestals is shown below.

Figure 2:   Pedestals
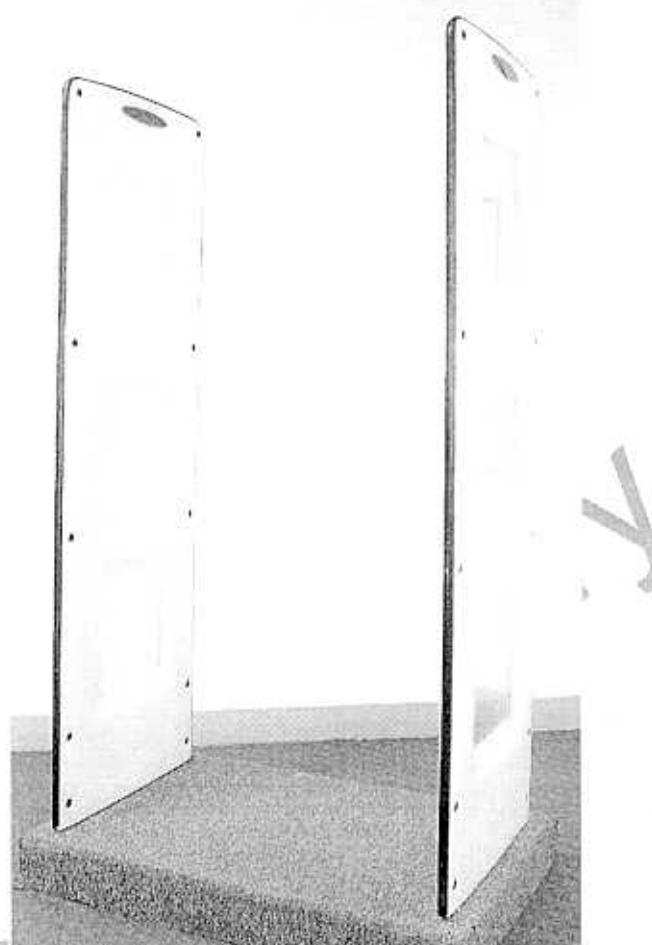
The following components form the pedestal:

≈   *chassis* — a supporting frame fixed to the floor

≈   *flasher unit* — produces a visual alarm at the top of the pedestal (a buzzer is also provided)

≈   *antennas* — three antennas, which detect theft bit information from the smart labels

≈   *adaptor board* — connection point for cables to the electronics unit, the antennas, and the flasher unit

PIR (passive infrared) sensors are also mounted on this board for detecting the presence of people near the pedestals.

≈   *mountings* — fix the chassis to the floor, and strong enough to ensure the pedestal will not collapse even if an average sized person falls against it

≈   *cover and seal* — plastic cover in two halves with a flasher and a rubber seal between the halves

Electronics unit components

Each pedestal is cabled to a **Medio L122 EAS** electronics unit that reads information from the smart labels passing between the pedestals.

The electronics unit has two small indicator lights. The green light should be on when the electronics unit has power. The red light should be on whenever the flasher unit on the pedestal is flashing to indicate a smart label with theft bit ON has been detected.

WARNING: The electronics unit contains no operator serviceable parts and must only be serviced by qualified personnel.

Figure 3:   Electronics unit (front and rear)

Connections to:

plug pack   optional outputs   pedestal adaptor board
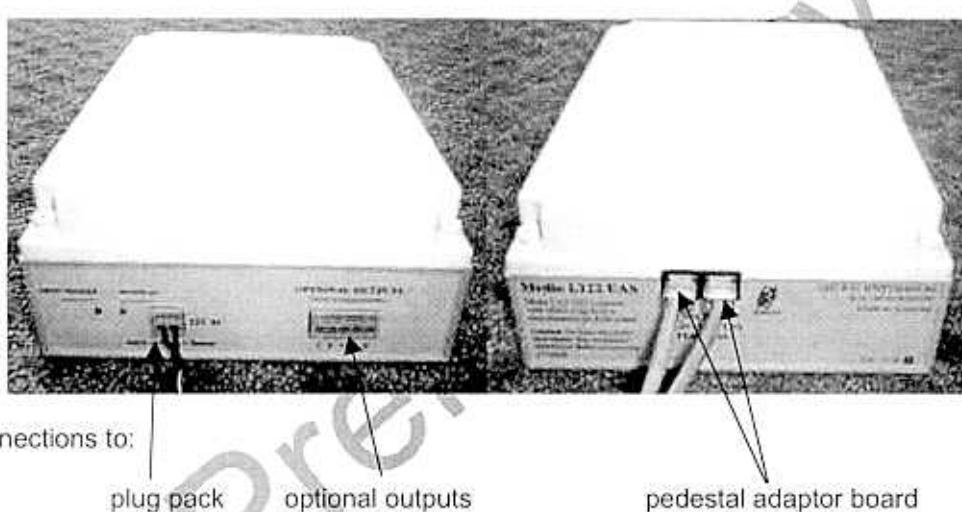
Note: The electronics unit is not fused and does not contain any fans, batteries or insulated interconnecting wiring.

1.5 Cabling and plug pack

The pedestals are supplied with all internal wiring and cabling connected. The cable from the electronics unit to the adaptor board provides received (Rx) and transmitted (Tx) signals to and from the pedestal, and power for the flasher unit.

The mains power supply to the electronics unit is a separate wall plug style linear mains pack that converts the local mains power to 12 V AC, 1 Amp power at 50 Hz or 60 Hz. A separate plug pack should be provided for each pedestal.

The plug pack must be purchased locally to suit the voltage and frequency ratings of the national supply. It must meet the national regulations for the country in which it is installed. Full specifications are included in *Section 4.1*

4

Technical data

4.1 Technical specifications

Feature	Details
Microchip compatibility	GemWave C220
Operating conditions	0°C to 55°C
Storage temperature	-20°C to 70°C
Weight	Electronics: 1.1 kg
	Pedestal: 17 kg
Conformity	FCC Part 15, CE; C-Tick, UL, IEC 60950 (Applications pending at time of printing.)
Power supply	12V AC 1 Amp 50/60 Hz

4.2 Spare parts

Please contact TAGSYS for any spare parts you require.