

Theory of Operation

The Active Identity Badge is worn by a staff member and may be used for hands-free access control, general tracking, duress alarm or any location based service. The tag transmits an RF message every 10 seconds. These messages are received by Elpas RF receivers and are then passed on to a central server. The badge's location is determined using the signal strength received at the receivers. In addition, should the tag near an exit containing an Elpas LF Exciter, then the tag will transmit special messages containing also the LF ID for explicit positioning. When the tag enters the LF field it transmits a burst of 4 messages and every 2 seconds until it exits the area of the exit.

The tag also contains two buttons, when a button is pressed, then button press and button release event messages are transmitted. Each event is transmitted as 4 separate messages.