

SmartWave's Authentication & Sensor Technology

Providing low cost authentication solutions and a variety of environmental sensors.

SmartWaves authentication solutions consist of an E-Key / Tag and reader which are ideal for applications with a tag to reader ratio up to 50:1 such as in a commercial soap dispenser. In commercial soap dispensers the readers are built into a low-cost dispenser, and E-Key integrated into the soap refill. Average annual usage ranges from 1-6 refills per dispenser per year.

Criteria	E-Key System	RFID Low Frequency
Reader Cost	Low	High
E-KEY / Tag Cost	Med	Low
Power	Low (Battery)	Low
Range	Near Contact	Near Contact
Frequency	Low	Low
Memory	Low	High
Durability	High	Low

SmartWave's low power and cost sensor solutions are ideally suited for noisy environments where batteries are required. Real time event monitoring captures and communicates data and/or initiates an action or event.

SmartWave's hardware solutions coupled with our backend data analytics allow us to provide actionable information from large amounts of data.

- Passive and Active IR (PIR, AIR)
- Time of flight
- Capacitive sensors
- Ultrasonic sensors
- Strain Gauge
- Temperature
- Pressure
- Vibration and acceleration monitoring