Kemuri

Safer Independent Living

Portable K-Socket®

Fixed K-Socket®

Summary

- Continuously monitor movement, power used and temperature
- Automatically alert unusual levels of activity to families and carers
- Low cost installation and operation, which includes GSM telecoms

Description

- Kemuri K-Sockets® are multi-sensor electrical power sockets designed to increase the safety of vulnerable people living independently. People plug in switchable kitchen equipment, such as kettles, microwaves and toasters.
- K-Sockets® measure movement, electrical power usage, temperature, humidity and power supply data. Internal GSM modems transmit data every 15 minutes to an app server via the Internet.
- Statistical machine learning algorithms calculate individual patterns of normal daily activity for every hour. The system automatically alerts unusual levels of activity by email, SMS text or 24/7 alarm response centres.
- All K-Sockets® have identical PCBs and hardware functions, including an alarm for temperatures above 500C.
- Responders - family members or carers - view detailed sensor data on PCs, tablets or smartphones.

- Portable K-Sockets® have an extension cable and 13A plug for immediate installation. Plug in a kettle and a cooking appliance and it's ready to start learning.
- Fixed K-Sockets® are designed to replace UK standard double power sockets or as spurs on 30Amp ring mains. They are supplied with an installation guide for qualified electricians
- Internal roaming SIM cards are factory fitted, with costs included in the service charge. In poor reception areas, sensor data is stored until communications are restored.
- During power cuts, K-Sockets® have internal battery back-up for 12-18 hours. They alert power loss after two hours, often owing to inadvertent disconnection of portable versions.

GDPR

- K-Sockets® collect data for processing and sharing with trusted people or organisations.
- The person must give informed consent to share data before monitoring commences.
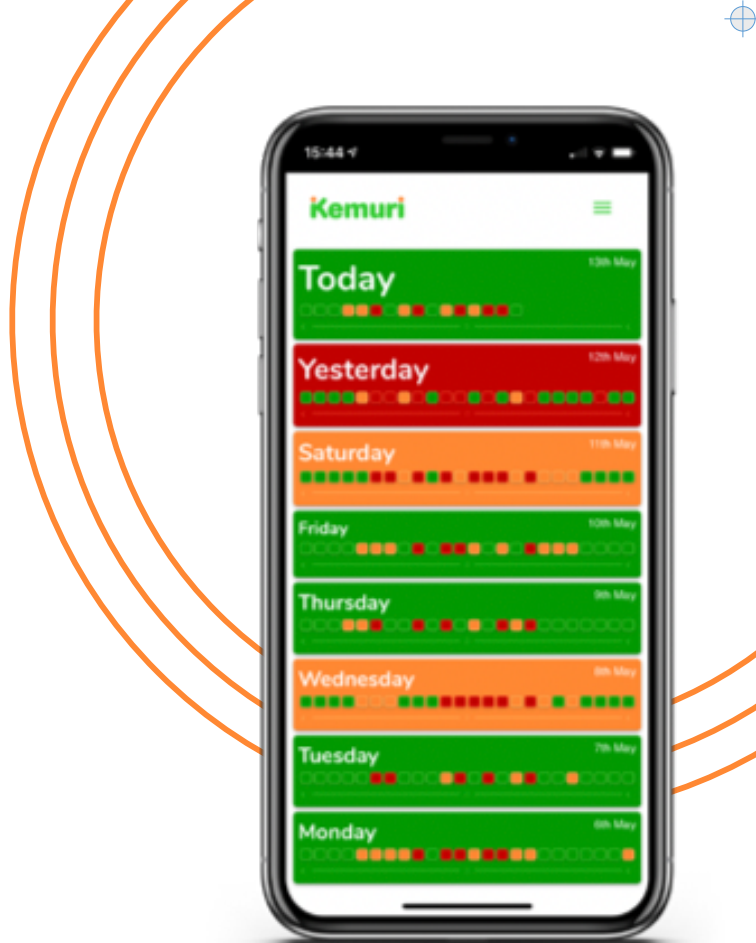- Kemuri is registered with the ICO with the reference ZA154221.

Portable K-Socket®
Fixed K-Socket®

Sensors

📡 Motion

⚡ Power used

🌡️ Temperature

💧 Humidity

⏻ Power supply

Technical Specifications

Power (Nominal)	3KW
Input Rated Voltage Range	90VAC to 253VAC
Input Rated Current	13Amps
Output Current (Maximum)	13Amps
Frequency	50Hz/ 60Hz
Backup battery capacity	3.6V 600mA Hr Ni-MH
Battery run time (Fully Charged)	Up to 18hrs
Battery standby current	Zero
Antenna power (typical)	30 dBm
Antenna Sensitivity	-109 dBm
Operational temperature range	0°C to 40°C
Storage temperature range	-20°C to 60°C
Relative Humidity	80%
RF Communication method	GSM / 2G
Protocol	Proprietary
Software update	OTA (Over The Air)
Weight	670g (portable) 550g (fixed)
Dimensions L x W x H	150 x 100 x 100 mm (portable) 150 x 60 x 90 mm (fixed)

Alerter App

- Automatic alerting means that there's no need to login every day.
- Any number of people with informed consent can login to view the alerter app.
- Click on the weekly summary screen to inspect the detailed hourly sensor readings for any days that caused an alert.

Directive Certifications

Low Voltage Directive 2014/35/EU	EN 60950-1: 2006 + A11: 2008 + A1: 2010 + A12: 2011 + A2: 2013
Electro-Magnetic-Compliance 2014/30/EU	EN61000-6-3:2007 +A1:2011, EN50130-4:2011 301 489-7 v 1.3.1 EN 301 489-1 v 1.9.2
RED 2014/53/EU	
RoHS 2011/65/EU	
WEEE	WEE/AG5612UY

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