

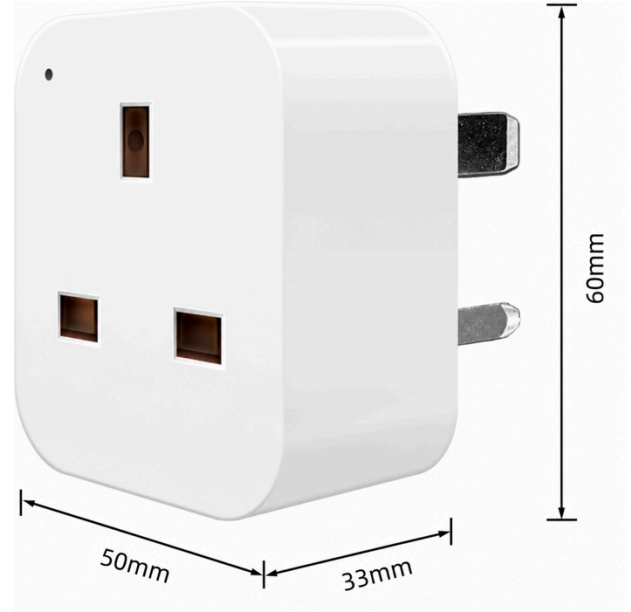
WiFi Smart Plug

- RansNet Smart Energy Series

Model: **SE-PM1B**

The RansNet SE-PM1B is a WiFi smart plug designed for countries and regions using UK or US type plugs. It includes a companion cloud platform and development documentation, supports self-hosted MQTT servers — fully self-managed and suitable for private LAN and dedicated network environments.

The SE-PM1B supports remote ON/OFF control via WiFi wireless communication with real-time current detection, making it ideal for monitoring whether connected socket loads are operating normally.



KEY FEATURES

- Device status information query
- Device energy information query
- Remote ON/OFF control
- Network config lock setting
- Button lock setting
- Timed energy data reporting
- Device soft restart
- Factory reset / restore defaults
- Custom MQTT / Custom TCP server
- Power-off memory function
- Device communication info query
- Real-time current detection
- Input: 100-250Vac, 10A max load current

TECHNICAL SPECIFICATIONS

Electrical Parameters	
Input Voltage	100Vac – 250Vac
Max Load Current	10A
Plug Type	UK or US Type

Communication	
Comms Module	ESP8285 WiFi
Protocol	2.4G WiFi / MQTT / TCP
Server Support	RansNet mfusion or customer-hosted MQTT/TCP platform

APPLICATIONS

- Smart home & building automation
- Office equipment remote power control
- Socket load health monitoring
- IoT private/intranet deployments
- UK-standard countries & regions

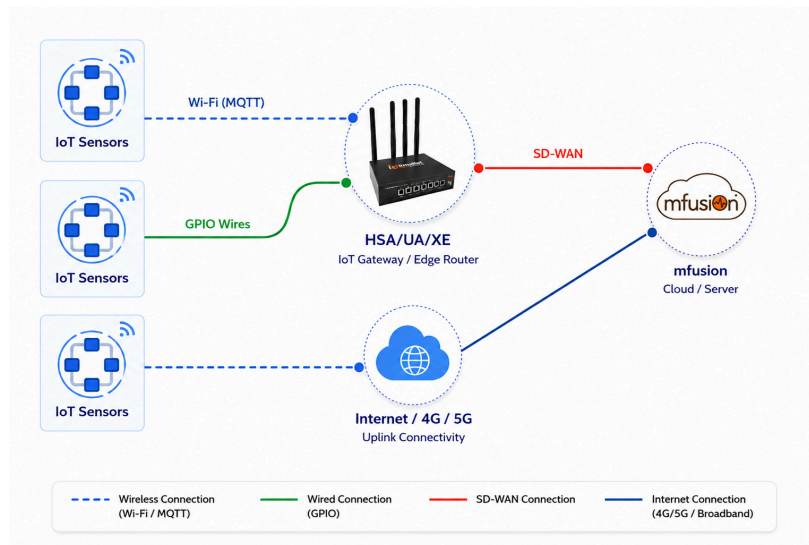
ORDERING INFORMATION

Model	Description
SE-PM1B-ES	WiFi Smart Plug, UK Type G, Single Channel, with Energy Monitoring
SE-PM1B-US	WiFi Smart Plug, US Type G, Single Channel, with Energy Monitoring

SOFTWARE PARAMETERS – FIELD ATTRIBUTES

Field	Type	Description / Notes
info	String	Device type, MAC address, firmware version, switch state, config lock & button lock status
statistic	String	Current voltage, current, power, cumulative energy (kWh)
key	int	Device ON/OFF control — 0: Off (power cut), 1: On (powered)
setting	String	Modify config lock, button lock, timed reporting enable & interval, etc.
wifiLock	int	Network config lock — 0: Off, 1: On
keyLock	int	Button lock — 0: Off, 1: On
timerEnable	int	Timed energy reporting — 0: Disabled, 1: Enabled
timerInterval	int	Energy reporting interval (seconds); range: 5–86400
restart	String	Device soft restart
reset	String	Factory reset / restore defaults
onState	int	Default power-on state — 0: Memory, 1: Off (default), 2: On
protocol	String	Get device communication protocol; fixed field: <i>protocol</i>

DEPLOYMENT ARCHITECTURE



Layer	Function
SE-PM1B	WiFi smart plug (UK Type G); supports remote ON/OFF control, real-time current detection, power-off memory, and timed energy reporting via MQTT/TCP.
RansNet Edge Router	Secure WiFi/4G/5G/VPN uplink for distributed sites. Bridges SE-PM1B to MQTT broker and mfusion cloud platform.
SD-WAN	Securely transports IoT data across any private/public underlay infrastructure.
RansNet mfusion Platform	Centralized monitoring, energy data trends, remote control, multi-site management, TCP Client / MQTT direct connection, customer-hosted platform support.

